

DIGITAL TRANSISTOR

APPLICATION:

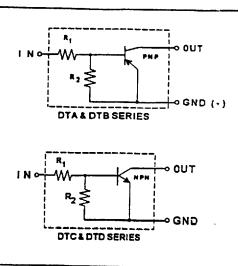
Inverter, Driver & Interface Circuits

FEATURES:

- Replaces up to three parts (1 transistor & 2 resistors) with one part
- Available in a variety of surface mount or leaded (thru-hole) packages
- · High packing density requires less board space
- Cost savings due to fewer components to purchase & stock & handle
- Improved reliability due to reduced number of components
- Available in PNP & NPN polarities
- Available in 100 mA & 500 mA devices
- · Decreased parasitic effects
- Double diffused silicon, Epitaxial Planar Transistor with thin film internal bias resistor;

MAXIMUM RATINGS:



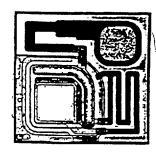


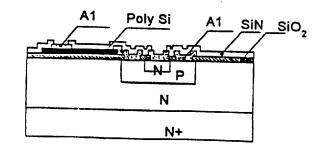
PARAMETER	PN	P	N	PN	1
	DTA	DTB	DTC	DTD	UNITS
Power Supply Voltage (V _{cc})	50	50	50	50	Volts
Collector Current (I _c)	100	500	100	500	mA
Junction Temperature (Tj)	÷125	+125	+125	+125	•C
Storage Temperature (Tstg)	-55 to +125	-55 to +125	-55 to +125	-55 to +125	•c
Power Dissipation (Pd)	Rated by	Package - See		0010 123	mW

MAXIMUM POWER DISSIPATION BY PACKAGE: Pd (mW)

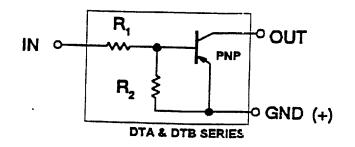
	SURI	FACE MO	JNT DEVI	CES	THRU	HOLE (L	EADED) D	EVICES	·····
Test	SST	SMT	имт	EM3	SPT	ATR	ATV	FTR	FTL
Condition	(SOT-23)	(SC-59)			(TO-92S)				
Free Air/PCB	200	200	200	150	300	300	300	300	200
Ceramic Substrate	350	350	350	250	-				300

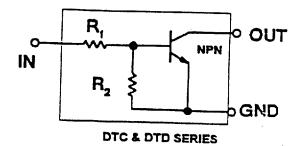
DIGITAL TRANSISTOR CONSTRUCTION:





ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 FAX (615)641-2022





	Resistor Velues	PNP	PNP	NPN	NPN
R,	R,	l _o (Max) = 100 mJ. 2N3906	i _c (Max) = 600 mA PN2907A/2N4403	l _c (Max) = 100 mA 2N3904	l _c (Mex) = 500 m/ PN2222A/2N4401
1/K 1/K	1K NONE		DTB 113E	-	DTD 113E
1/K	10K	DTA 113T DTA 113Z	DTB 113Z	DTC 113Z	•
10K	10K	DTA 114E	DTB 114E		DTD 113Z
0	10K	DTA 114G	OID HINE	DTC 114E	DTD 114E
10K	NONE	DTA 114T	DTB 114T	DTC 114G	DTD 114G
10K	4.7K	DTA 114W	0101141	DTC 114T/DTC 314T *	DTD 114T
10K	47K	DTA 114Y/DTA 214Y	-	DTC 114W DTC 114Y	•
100K	100K	DTA 115E		DIC 1141	-
0	100K	DTA 115G	-	DTC 115E	
100K	NONE		-	DTC 115G	-
100K	10K	DTA 115T	-	DTC 115T	
	+	DTA 115U	-	DTC 115U	
.22K	4.7K	-	DTB 122J	-	DTD 122.1
2.2K	2.2K	DTA 123E	DTB 123E	DTC 123E	
2.2K	NONE	-	DTB 123T	DTC 323T •	DTD 123E
2.2K	47K	DTA 123J	-		DTD 123T
2.2K	10K	DTA 123Y	DTB 123Y	DTC 123J DTC 123Y	DTD 123Y
2.7K	1K	DTA 1D3R		DTC 1D3R	0101231
22K	22K	DTA 124E			•
0	22K	DTA 124G	-	DTC 124E	-
22K	NONE	DTA 124T	-	DTC 124G	•
22K	47K	DTA 124X	-	DTC 124T	-
220K	NONE	DTA 125T		DTC 124X	-
3.3K	10K		-	DTC 125T	-
	<u>+</u>	-	DTB 133H	•	DTD 133H
4.7K	4.7K	DTA 143E	DTB 143E	DTC t tor	
4.7K	NONE	DTA 143T	DTB 143T	DTC 143E	DTD 143E
4.7K	10K	DTA 143X	-	DTC 143T/DTC 343T •	DTD 143T
1.7K	22K	DTA 143Y		DTC 143X	•
4.7K	47K	DTA 143Z	-	DTC 143Y DTC 143Z	-
47K	47K	DTA 144E			-
0	47K	DTA 144G		DTC 144E	-
47K	NONE	DTA 144T		DTC 144G	-
47K	10K	DTA 144V		DTC 144T	-
17K	22K	DTA 144W	.	DTC 144V DTC 144W	-
.8K	6.8K	-			*
5.8K	NONE	-	DTB 163T	DTC 363E *	*
			0101031	DTC 363T •	DTD 163T

* l_c = 600 mA

NOTE: See "How to Order" for complete part number

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ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 EAX (615)641

DIGITAL TRANSISTOR: PNP

ELECTRICAL CHARACTERISTICS: 100 mA Series

	Vin(o	ŋ.		Vin(o	n)		Vo	(on)			Ð		Ic(OF	Ð		Vce(S	SAT)		Cob	@ F=1	MHz		CUT-O	FF FR	EQ
PART	Max	Voe	5	Min	Voe	S	TYP	Max	lc	1b	Manc	Vin	Max	Voc	Vin	Max	to	Ð	TYP	Max	Vcb	Je	п	Vce	k
NUMBER	M	8	(mA)	M	8	(mA)	M	M	(mA)	(mA)	(mA)	Ø	(uA)	M	<u>M</u>	M	(mA)	(mA)	(pF)	(pF)	M	(mA)	(MHz)	M	(mA)
DTA113Z	0.3	5	0,1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114E	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114W	0.8	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA115E	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	- 30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA115U	3.3	5	0.1	1.5	0.3	1	0.1	0.3	7	0.2	0.1	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123J	0.5	5	0.1	1.1	0.3	5	0.1	0.3	5	0.25	3.6	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123Y	0.3	5	0.1	3	0.3	20	0,1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA124E	0.5	5	0.1	3	0.2	5	0.1	0.3	10	0.5	0.36	5	10	- 30	0	0.3	5	0.25	3	-6	10	0	250	10	5
DTA124X	6.4	5	0.1	25	0.3	2	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143E	<u>C.5</u>	5	0.1	3	0.3	20	0.1	0.3	10	0.5	1.8	· 5	10	· 30	0	0.3	5	0.25	3	6	· 10	0	250	10	5
DTA143X	0.3	5	0.1	2.5	0.3	20	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143Y	0.3	5	0.1	3	0.3	10	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143Z	6.5	5	0.1	1.3	0.3	5	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144E	6.5	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.18	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144V	`. 0	5	0.1	6	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144W	0.B	5	0.1	4	0.3	2	0.1	0.3	10	0.5	0.15	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA214Y	C.3	5	0.1	1.4	0.3	1	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA1D3R	1.5	5	0.1	4	0.3	5	0.1	0.3	10	1	3.7	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5

	Vin(of	T)		Vin(o	n)		Vo	(on)			Шb		k(OF	F)		Vce(S	AT)		Cob	@ F=1	MHz		CUT-O	FF FR	EQ
PART	Max	Vce	k	Min	Vce	k	TYP	Max	k	lb	Max	Vin	Max	Voc	Vin	Matt	kc	b	TYP	Max	Vcb	le	п[Vce	kc
NUMBER	M	8	(mA)	_ (M	∞	(uA)	8	M	(mA)	(mA)	(mA)	8	(uA)	<u></u>	Ø	M	(mA)	(mA)	(pF)	(pF)	8	(mA)	(MHz)	8	(mA)
DTA143T	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	- 30	0	0.3	10	1	3	6	10	0	250	10	5
DTA124T	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.5	3	6	10	0	250	10	5
DTA144T	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.5	3	6	10	0	250	10	5
DTA115T	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	1	0.1	3	6	10	0	250	10	5
DTA125T	0.8	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.33	5	10	30	0	0.3	0.5	0.05	3	6	10	0	250	10	5
DTA113T	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.2	3	6	10	0	250	10	5

• •	Vin(of	ť)		Vin(o	n)		Vo	(on)			۱Ь		Ic(OF	F)		Vce(S	AT)		Cob (₽ F=1	MHz		CUT-O	FF FR	EO
PART	Max	Vce	ñ	Min	Voe	S.	TYP	Max	k	lb	Max	Vin	Matt	Voc	Vin	Max	k	1b	TYP	Max	Vcb	le l	πI	Vce	lc
NUMBER	m	\sim	(mA)	S	8	(uA)	ŝ	3	(mA)	(mA)	(mA)	3	(uA)	3	3	6	(mA)	(mA)	(pF)	(pF)	ŝ	(mA)	(MHz)	ŝ	(mA)
DTA114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	5
DTA124G	0.5	· 5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	
DTA144G	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	
DTA115G	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3		0.25			10	0	250	10	
DTB114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	50	2.5	3	6	10	0	200	10	- 5

ELECTRICAL CHARACTERISTICS: 500 mA Series

Vin(of	1)		Vin(or	1)		Vo	(on)			Шb		Ic(OF	F)		Vce(S	AT		Cob	@ F=1	MH7		CIT-O	FF FR	FO
Max	Vce	k	Min	Voe	k	TYP	Max	k	۱b	Max	Vin	Max	Voc	Vin	Max	k	Шb				- La			
<u>(M)</u>	Ś	(mA)	ŝ	3	(uA)	3	(M)	(mA)	(mA)	(mA)	3	(uA)	3	S	6	(mA)	(mA)				(mA)	(144-7)		(mA)
0.5	5	0.1	3	0.3	20	0.1	0.3	50	25	72	5	10	30	Ó	0.3			3	-	-	0			50
0.3	5	0.1	3	0.3	20	0.1	0.3	50	2.5	72	5	10	30	0	0.3			3	6			_		50
0.5	5	0.1	3	0.3	10	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3		-	3	6				_	50
0.5	5	0,1	3	0.3	20	0.1	0.3	50	2.5	3.8	5	10	30	0	-	-		3	-	-				
0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	1.8	5	10	30	0				- 3			- 0			50
0.3	5	0.1	2	0.3	20	0.1	0.3	50	2.5	3.6	5	10	30	0	_	-					0			50
0.3	5	0.1	2	0.3	30	0.1	0.3	50	2.5	4.5	5					· · · · · · · · · · · · · · · · · · ·	_				0			50
0.3	5	0.1	2	0.3	20						5								0	_	0	_		50 50
	Max (V) 0.5 0.3 0.5 0.5 0.5 0.3 0.3	(\mathcal{Y}) (\mathcal{Y}) 0.5 5 0.3 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.3 5 0.3 5 0.3 5	Max Vce kc (V) (MA) (mA) 0.5 5 0.1 0.3 5 0.1 0.5 5 0.1 0.5 5 0.1 0.5 5 0.1 0.5 5 0.1 0.5 5 0.1 0.5 5 0.1 0.3 5 0.1 0.3 5 0.1	Max Vce ic Min (V) (V) (mA) (V) 0.5 5 0.1 3 0.3 5 0.1 3 0.5 5 0.1 3 0.5 5 0.1 3 0.5 5 0.1 3 0.5 5 0.1 3 0.5 5 0.1 3 0.3 5 0.1 2 0.3 5 0.1 2	Max Vce ic Min Vce (Y) (Y) (mA) (Y) (Y) 0.5 5 0.1 3 0.3 0.3 5 0.1 3 0.3 0.5 5 0.1 3 0.3 0.5 5 0.1 3 0.3 0.5 5 0.1 3 0.3 0.5 5 0.1 3 0.3 0.5 5 0.1 3 0.3 0.3 5 0.1 2 0.3 0.3 5 0.1 2 0.3	Max Vce ic Min Vce ic (Y) (Y) (mA) (Y) (Y) (uA) 0.5 5 0.1 3 0.3 20 0.3 5 0.1 3 0.3 20 0.5 5 0.1 3 0.3 20 0.5 5 0.1 3 0.3 20 0.5 5 0.1 3 0.3 20 0.5 5 0.1 3 0.3 20 0.5 5 0.1 3 0.3 20 0.5 5 0.1 3 0.3 20 0.3 5 0.1 2 0.3 20 0.3 5 0.1 2 0.3 30	Max Vce ic Min Vce ic TYP (Y) (Y) (mA) (Y) (Y) (Y) (Y) 0.5 5 0.1 3 0.3 20 0.1 0.3 5 0.1 3 0.3 20 0.1 0.5 5 0.1 3 0.3 20 0.1 0.5 5 0.1 3 0.3 20 0.1 0.5 5 0.1 3 0.3 20 0.1 0.5 5 0.1 3 0.3 20 0.1 0.5 5 0.1 3 0.3 20 0.1 0.5 5 0.1 2 0.3 20 0.1 0.3 5 0.1 2 0.3 30 0.1	Max Vce ic Min Vce ic TYP Max (Y) (Y) (mA) (Y) (Y) (M) (Y) (MA) (Y) (Y) 0.5 5 0.1 3 0.3 20 0.1 0.3 0.3 5 0.1 3 0.3 20 0.1 0.3 0.5 5 0.1 3 0.3 20 0.1 0.3 0.5 5 0.1 3 0.3 20 0.1 0.3 0.5 5 0.1 3 0.3 20 0.1 0.3 0.5 5 0.1 3 0.3 20 0.1 0.3 0.5 5 0.1 3 0.3 20 0.1 0.3 0.3 5 0.1 2 0.3 20 0.1 0.3 0.3 5 0.1 2 0.3 30 0.1 0.3	Max Voe Ic Min Voe Ic TYP Max Ic (Y) (Y) (mA) (Y) (Y) (W) (Y) (Y) (mA) 0.5 5 0.1 3 0.3 20 0.1 0.3 50 0.3 5 0.1 3 0.3 20 0.1 0.3 50 0.5 5 0.1 3 0.3 20 0.1 0.3 50 0.5 5 0.1 3 0.3 20 0.1 0.3 50 0.5 5 0.1 3 0.3 20 0.1 0.3 50 0.5 5 0.1 3 0.3 20 0.1 0.3 50 0.5 5 0.1 2 0.3 20 0.1 0.3 50 0.3 5 0.1 2 0.3 30 0.1 0.3 50	Max Voe Ic Min Voe Ic TYP Max Ic Ib (Y) (Y) (mA) (Y) (YA) (W) (YV) (MA) <t< td=""><td>Max Voe Ic Min Voe Ic TYP Max Ic Ib Max (Y) (Y) (mA) (Y) (Y) (Y) (Y) (mA) (mA) (mA) 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 0.3 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 0.88 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 3.8 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 3.8 0.3 5 0.1 2 <td< td=""><td>Max Voe Ic Min Voe Ic TYP Max Ic Ib Max Vin (Y) (Y)</td><td>Max Voe Ic Min Voe Ic TYP Max Ic Ib Max Vin Max (Y) (Y) (mA) (Y) (Y) (Y) (Y) (mA) (mA) (Y) (Max (Max (Max (Y) (Max (Y) (Max (Y) (MA) (mA) (mA) (Y) (UA) (UA) (Y) (Y) (Max (Y) (MA) (Y) (MA) (Y) (UA) (UA) (UA) (Y) (UA) (Y) (UA) (Y) (MA) (TA) (TA)</td><td>Max Voe Ic Min Voe Ic TYP Max Ic Ib Max Vin Max Voc (Y) (Y) (Y) (Y) (Y) (Y) (Y) (MA) (mA) (mA) (Y) (MAX) (MAX) (mA) (mA) (Y) (UA) (Y) (MAX) (mA) (mA) (Y) (UA) (Y) (MAX) (mA) (mA) (Y) (UA) (Y) (UA) (Y) (UA) (Y) (UA) (Y) (UA) (Y) (MAX) (MAX) (Y) (UA) (Y) (UA)</td></td<><td>Max Voe ic Min Voe ic TYP Max ic Ib Max Vin Max Voc Vin (M (M) (M) Voe ic TYP Max ic Ib Max Vin Max Voc Vin 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 5 10 30 0 0.3 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 5 10 30 <td< td=""><td>Max Voe Ic Min Voe Ic TYP Max Ic <</td><td>Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vce Vin Max ic lb Max Vin Max</td><td>Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vin Max ic lb Max Vin Max ic lb Max Vin Max Max Vin Max Vin<</td><td>Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vin Max ic lb Max Vin Max Vin Max ic lb Max Vin Max ic lb Max Vin Max ic lb Max Vin Max <!--</td--><td>Max Vce ic Min Vce ic TYP Max ic ib Max Vce Vin Max ic ib TYP Max ic ib Max Vin Max</td><td>Max Vce ic Min Vce ic TYP Max ic ib Max Vce Vin Max ic Ib Max Vin Max</td><td>Max Voe ic Min Voe ic TYP Max ic Ib Max Vin Max</td><td>Max Voe kc Min Voe kc TYP Max kc b Max Voe Voe Kc MHz CUT-O (M (M) (V) (M) (V) (M) (M) (mA) (mA) (mA) (mA) (mA) (mA) (M) (MAx Vin Max Vin Max ic ib Max Vin Max ic ib M (mA) (mA)<</td><td>Max Voe ic TYP Max ic Ib Max Voe Voe ic TYP Max CUT-OFF FR (M) (M) (V) (M) (V) (M) (M) (V) (M) (MAX Vin Max Vin Min Vin Min Vin Min Vin Min Vin Min<!--</td--></td></td></td<></td></td></t<>	Max Voe Ic Min Voe Ic TYP Max Ic Ib Max (Y) (Y) (mA) (Y) (Y) (Y) (Y) (mA) (mA) (mA) 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 0.3 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 0.88 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 3.8 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 3.8 0.3 5 0.1 2 <td< td=""><td>Max Voe Ic Min Voe Ic TYP Max Ic Ib Max Vin (Y) (Y)</td><td>Max Voe Ic Min Voe Ic TYP Max Ic Ib Max Vin Max (Y) (Y) (mA) (Y) (Y) (Y) (Y) (mA) (mA) (Y) (Max (Max (Max (Y) (Max (Y) (Max (Y) (MA) (mA) (mA) (Y) (UA) (UA) (Y) (Y) (Max (Y) (MA) (Y) (MA) (Y) (UA) (UA) (UA) (Y) (UA) (Y) (UA) (Y) (MA) (TA) (TA)</td><td>Max Voe Ic Min Voe Ic TYP Max Ic Ib Max Vin Max Voc (Y) (Y) (Y) (Y) (Y) (Y) (Y) (MA) (mA) (mA) (Y) (MAX) (MAX) (mA) (mA) (Y) (UA) (Y) (MAX) (mA) (mA) (Y) (UA) (Y) (MAX) (mA) (mA) (Y) (UA) (Y) (UA) (Y) (UA) (Y) (UA) (Y) (UA) (Y) (MAX) (MAX) (Y) (UA) (Y) (UA)</td></td<> <td>Max Voe ic Min Voe ic TYP Max ic Ib Max Vin Max Voc Vin (M (M) (M) Voe ic TYP Max ic Ib Max Vin Max Voc Vin 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 5 10 30 0 0.3 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 5 10 30 <td< td=""><td>Max Voe Ic Min Voe Ic TYP Max Ic <</td><td>Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vce Vin Max ic lb Max Vin Max</td><td>Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vin Max ic lb Max Vin Max ic lb Max Vin Max Max Vin Max Vin<</td><td>Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vin Max ic lb Max Vin Max Vin Max ic lb Max Vin Max ic lb Max Vin Max ic lb Max Vin Max <!--</td--><td>Max Vce ic Min Vce ic TYP Max ic ib Max Vce Vin Max ic ib TYP Max ic ib Max Vin Max</td><td>Max Vce ic Min Vce ic TYP Max ic ib Max Vce Vin Max ic Ib Max Vin Max</td><td>Max Voe ic Min Voe ic TYP Max ic Ib Max Vin Max</td><td>Max Voe kc Min Voe kc TYP Max kc b Max Voe Voe Kc MHz CUT-O (M (M) (V) (M) (V) (M) (M) (mA) (mA) (mA) (mA) (mA) (mA) (M) (MAx Vin Max Vin Max ic ib Max Vin Max ic ib M (mA) (mA)<</td><td>Max Voe ic TYP Max ic Ib Max Voe Voe ic TYP Max CUT-OFF FR (M) (M) (V) (M) (V) (M) (M) (V) (M) (MAX Vin Max Vin Min Vin Min Vin Min Vin Min Vin Min<!--</td--></td></td></td<></td>	Max Voe Ic Min Voe Ic TYP Max Ic Ib Max Vin (Y)	Max Voe Ic Min Voe Ic TYP Max Ic Ib Max Vin Max (Y) (Y) (mA) (Y) (Y) (Y) (Y) (mA) (mA) (Y) (Max (Max (Max (Y) (Max (Y) (Max (Y) (MA) (mA) (mA) (Y) (UA) (UA) (Y) (Y) (Max (Y) (MA) (Y) (MA) (Y) (UA) (UA) (UA) (Y) (UA) (Y) (UA) (Y) (MA) (TA)	Max Voe Ic Min Voe Ic TYP Max Ic Ib Max Vin Max Voc (Y) (Y) (Y) (Y) (Y) (Y) (Y) (MA) (mA) (mA) (Y) (MAX) (MAX) (mA) (mA) (Y) (UA) (Y) (MAX) (mA) (mA) (Y) (UA) (Y) (MAX) (mA) (mA) (Y) (UA) (Y) (UA) (Y) (UA) (Y) (UA) (Y) (UA) (Y) (MAX) (MAX) (Y) (UA)	Max Voe ic Min Voe ic TYP Max ic Ib Max Vin Max Voc Vin (M (M) (M) Voe ic TYP Max ic Ib Max Vin Max Voc Vin 0.5 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 5 10 30 0 0.3 5 0.1 3 0.3 20 0.1 0.3 50 2.5 7.2 5 10 30 <td< td=""><td>Max Voe Ic Min Voe Ic TYP Max Ic <</td><td>Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vce Vin Max ic lb Max Vin Max</td><td>Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vin Max ic lb Max Vin Max ic lb Max Vin Max Max Vin Max Vin<</td><td>Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vin Max ic lb Max Vin Max Vin Max ic lb Max Vin Max ic lb Max Vin Max ic lb Max Vin Max <!--</td--><td>Max Vce ic Min Vce ic TYP Max ic ib Max Vce Vin Max ic ib TYP Max ic ib Max Vin Max</td><td>Max Vce ic Min Vce ic TYP Max ic ib Max Vce Vin Max ic Ib Max Vin Max</td><td>Max Voe ic Min Voe ic TYP Max ic Ib Max Vin Max</td><td>Max Voe kc Min Voe kc TYP Max kc b Max Voe Voe Kc MHz CUT-O (M (M) (V) (M) (V) (M) (M) (mA) (mA) (mA) (mA) (mA) (mA) (M) (MAx Vin Max Vin Max ic ib Max Vin Max ic ib M (mA) (mA)<</td><td>Max Voe ic TYP Max ic Ib Max Voe Voe ic TYP Max CUT-OFF FR (M) (M) (V) (M) (V) (M) (M) (V) (M) (MAX Vin Max Vin Min Vin Min Vin Min Vin Min Vin Min<!--</td--></td></td></td<>	Max Voe Ic Min Voe Ic TYP Max Ic <	Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vce Vin Max ic lb Max Vin Max	Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vin Max ic lb Max Vin Max ic lb Max Vin Max Max Vin Max Vin<	Max Vce ic Min Vce ic TYP Max ic lb Max Vin Max Vin Max ic lb Max Vin Max Vin Max ic lb Max Vin Max ic lb Max Vin Max ic lb Max Vin Max </td <td>Max Vce ic Min Vce ic TYP Max ic ib Max Vce Vin Max ic ib TYP Max ic ib Max Vin Max</td> <td>Max Vce ic Min Vce ic TYP Max ic ib Max Vce Vin Max ic Ib Max Vin Max</td> <td>Max Voe ic Min Voe ic TYP Max ic Ib Max Vin Max</td> <td>Max Voe kc Min Voe kc TYP Max kc b Max Voe Voe Kc MHz CUT-O (M (M) (V) (M) (V) (M) (M) (mA) (mA) (mA) (mA) (mA) (mA) (M) (MAx Vin Max Vin Max ic ib Max Vin Max ic ib M (mA) (mA)<</td> <td>Max Voe ic TYP Max ic Ib Max Voe Voe ic TYP Max CUT-OFF FR (M) (M) (V) (M) (V) (M) (M) (V) (M) (MAX Vin Max Vin Min Vin Min Vin Min Vin Min Vin Min<!--</td--></td>	Max Vce ic Min Vce ic TYP Max ic ib Max Vce Vin Max ic ib TYP Max ic ib Max Vin Max	Max Vce ic Min Vce ic TYP Max ic ib Max Vce Vin Max ic Ib Max Vin Max	Max Voe ic Min Voe ic TYP Max ic Ib Max Vin Max	Max Voe kc Min Voe kc TYP Max kc b Max Voe Voe Kc MHz CUT-O (M (M) (V) (M) (V) (M) (M) (mA) (mA) (mA) (mA) (mA) (mA) (M) (MAx Vin Max Vin Max ic ib Max Vin Max ic ib M (mA) (mA)<	Max Voe ic TYP Max ic Ib Max Voe Voe ic TYP Max CUT-OFF FR (M) (M) (V) (M) (V) (M) (M) (V) (M) (MAX Vin Max Vin Min Vin Min Vin Min Vin Min Vin Min </td

	Vin(o	ĨĨ)		Vin(o	n)		Vo	(ori)			lb		Ic(OF	Ð		Voe(S	AD		Cob	a		-			
PART	Max	Vce	kc	Min	Voe	kc	ТҮР	Max	k	lb	Max	Vin	Max	Voc	Vin	Max	lc	Шь	TYP	Max					
NUMBER	M	M	(mA)	M	ŝ	(uA)	m	6	(mA)	(mA)	(mA)	M	(uA)	3	M		(mA)		6P	Mack	Vcb (S	10	11	Vce	ы С
DT81231	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3		0.25		(pr)		(mA)		<u>(v)</u>	(mA)
DT8143T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.68	5	10	30	0	0.3		0.25		0	10	- 0	200	10	
DTB163T	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	-		_			8	10	0	200	10	5
DTB114T	Ő.3	5	0.1	1.4				-	-			ž				0.3		0.25	3	0	10	0	200	10	5
			<u>.</u>	1.4	0.3		0.1	Ô.3	3	0.25	Ô.88	5	10	50	0	0.3	5	0.25	3	6	10	0	200	10	5

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MARY ALT. I.L. L.L. K.L.

DIGITAL TRANSISTOR: PNP

ELECTRICAL CHARACTERISTICS: 100 mA Series

		RESISTO	RVALUE		R2/R	1	k	INPU	TVOLT	hFE			lcbo		loso				
PART	TYP	R1	R2	Min	Тур	Max	Max	Min	Max	Min	Voe	lic i	Max	Vob	Max	Voe	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)				(mA)	M	<u></u>		M	(mA)	(uA)	M	(uA)	LM	MARK	TYPE	CIRCUIT
DTA113Z	PNP	1.0	10.0	8	10	12	100	-10	5	33	5	5	0.5	50	0.5	50	E11/111	A776	
DTA114E	PNP	10.0	10.0	0.8	1	1.2	100	-40	10	30	5	5	0.5	50	0.5	50		A766	
DTA114W	PNP	10.0	4.7	0.37	0.47	0.57	100	-30	10	24	5	10	0.5	50	0.5	50	74	A778	1
DTA114Y	PNP	10.0	47.0	3.7	4.7	5.7	100	-49	8	68	5	5	0.5	50	0.5	50	54	A762	1
DTA115E *	PNP	100.0	100.0	0.8	1	1.2	100	-40	10	82	5	5	0.5	50	0.5	50	19	B861	1
DTA115U	PNP	100.0	10.0	0.06	0.1	0.12	100	49	10	27	5	5	0.5	50	0.5	50	E79/179	8865	
DTA123E	PNP	2.2	2.2	0.8	1	1.2	100	-12	10	20	5	20	0.5	50	0.5	50	12	A733	
DTA123J	PNP	2.2	47.0	17	21	26	100	-12	5	80	5	10	0.5	50	0.5	50	E32/132	A774	
DTA123Y	PNP	2.2	10.0	3.6	4.5	5.5	100	-12	5	33	5	10	0.5	50	0.5	50	52	A777	m. ^m our
DTA124E	PNP	32.0	22.0	0.8	1	1.2	100	-40	10	56	5	5	0.5	50	0.5	50		A761	(Base) (Concert)
DTA124X	PNP	220	- 47.0	1.7	21	2.6	100	-40	10	68	5	5	0.5	50	0.5	50		A770	P2
DTA143E	PNP	4.7	4.7	0.8	1	1.2	100	-30	· 10	20	- 5	10	0,5	50	0.5	50		A768	
DTA143X	PNP	4.7	10.0	1.7	21	2.6	100	-20	7	30	5	10	0.5	50	0.5	50		A769	(Longar)
DTA143Y	PNP	4.7	22.0	3.7	4.7	5.7	100	-30	6	56	5	5	0.5	50	0.5	52	the second s	A785	
DTA143Z	PNP	4.7	47.0	8	10	12	100	-30	5	80	5	10	0.5	50	0.5	50	E13/113		
DTA144E	PNP	-7.0	47.0	0.8	1	1.2	100	-40	15	68	5	5	0.5	50	0.5	52		A782	
DTA144V	PNP	~7.0	10.0	0.17	0.21	0.25	100			33	5	5	0.5	50			E56/158		1
DTA144W	PNP	<7.0	22.0	0.37	0.47	0.57	100	-40	10	56	5	5	0.5	50	0.5	50		A767	
DTA214Y	PNP	10	47	3.7	4.7	5.7	100	-40	6	68	5	5	0.5	50	0.5	50	N14		
DTA1D3R	PNP	2.7	1.0	0.33	0.37	0.41	100	-15	15	20	5	30	0.5	50		50	K38	-	

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		RESISTO	R VALUE	Vcbo	Vceo	Vebo	k		hFE				kcbo		Jebo	Γ Τ			
PART	ТҮР	F1	R2	Max	Max	Max	Max	Min	Тур	Max	Vce	k	Max	Vcb	Max	Veb	PART	DIE	EQUIVALENT
NUMBER		(*)	(K)	M	<u></u>	3	(mA)				3	(mA)	(uA)	M	(uA)	(1)	MARK	TYPE	
DTA143T	PNP	4.7	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	83	A764	
DTA114T	PNP	10.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5		_	A765	
DTA124T	PNP	22.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5				
DTA144T	PNP	47.0	NONE	50	50	5	100	100	250	600		1	0.5	50	0.5		the second s	_	Bass - Column
DTA115T	PNP	100.0	NONE	50	50	E.	100	100		600			_		-	•	State of the state	A772	
					_		100				_	1	0.5	50	0.5	4	99	8864	
DTA125T	PNP	200.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	24	B863	
DTA113T	PNP	1.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4		A786	

		RESISTO	R VALUE	Vcbo	Voeo	Vebo	ic		hFE				Icbo		lebo	- 1			
PART	TYP	R1	R2	Max	Max	Max	Max	Min	Тур	Max	Vce	lc	Max	Vcb		Veb	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	M	3	8	(mA)			1	0	(mA)	(uA)	S			MARK	TYPE	
DTA114G	PNP	0	10.0	50	50	5	100	30	-	•	5	5	0.5	50	580	4		A780	CIACOTI
DTA124G	PNP	0	22.0	50	50	5	100	56	•	1.	5	5	0.5	50	260			A781	
DTA144G	PNP	0	47.0	50	50	5	100	68	•	•	5	5	0.5	_	130	-		A782	Barro
DTA115G	PNP	0	100.0	50	50	5	100	82	•		5	5		50	58				R2 6
DTB114G	PNP	0	10.0	50	50	5	500	56	-	-	5	100	0.5	-	0.5			8862 8726	

ELECTRICAL CHARACTERISTICS: 500 mA Series

		RESISTO	R VALUE		P2/R	1	k	INPU	T VOLT	hFE		-	kbo		loso			1	
PART	TYP	R1	R2	Min	Тур	Max	Max	Min	Max	1 Min	Vce	ka	Mate	_		No.	0.0		
NUMBER		(K.)	(K)				(mA)		S		3	(mA)					PART MARK	DIE	EQUIVALENT
DTB113E	PNP	1.0	1.0	0.8	1	1.2	500	-10	10	33	- 5	50	0.5	50				TYPE	CIRCUIT
DTB113Z	PNP	1,0	10.0		10	12		_						_	0.5	50	F11	8717	
DTB114E	PNP			•	10		500	-10	5	56	5	50	0.5	50	0.5	50	G11	B718	
		10.0	10.0	0.8	1	1.2	500	-40	10	56	5	50	0.5	50	0.5	50	E14	B714	- M
DTB123E	PNP	2.2	2.2	0.8	1	1.2	500	-12	10	39	5	50	0.5	50	_	-	-		(Barran) (Colored)
DTB143E	PNP	4.7	4.7	0.8									-	-	0.5	50	F12	8712	,
DTB123Y	PNP		_			1.2	500	-30	10	47	5	50	0.5	50	0.5	50	F13	8713	1 ~!
		2.2	10.0	3.8	4.5	5.5	500	-12	5	56	5	50	0.5	50	0.5	50	E52	B715	· ····································
DTB122J	PNP	0.22	4.7	17.1	21.3	25.6	500	-5	5	47	5	50	0.5				_	_	(fantar)
DTB133H	PNP	3.3	10.0	24	3	-							_		0.5	50	G3C	8725	1 1
	ليشتني	0.0	10.0	2.4	3	3.7	500	-20	6	56	5	50	0.5	50	0.5	50	GOS	8710	1 1

1		RESISTO	R VALUE	Vcbo	Voeo	Vebo	lic	1	hFE				icbo		lebo		-		
PART	TYP		R2	Max		Max	Max	Min	Тур	Map	Voe	łc		-					
NUMBER		(K)	(K)	8	8	~	(mA)		170	-	S N		Marx				PART	DIE	EQUIVALENT
DTB123T	PNP	2.2	NONE	50	50	- 4	500	100	250	600	1	(mA)		- 1.7	(uA)	∞	MARK	TYPE	CIRCUIT
DTB143T	PNP	4.7	NONE	50	50		500					50	0.5	-	0.5	4	E92	8723	
DTB163T	PNP	6.8	NONE	50				100	250	600	<u> </u>	50	0.5	_	0.5	4	F03	B720	ter a fit
DTB114T	PNP			_	50	5	500	100		600	5	50	9,5	50	0,5	4	E97	B721	
	FAP	10.0	NONE	50	50	5	500	100	250	600	5	50	Ŏ.5	50	0.5	4	E94	8722	States

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DIGITAL TRANSISTOR: NPN

ELECTRICAL CHARACTERISTICS: 100 mA Series

	Vin(o	ጣ		Vin(o	n)		Vo	(on)			lb .		IC(OF	F)		Voe(SAT		Cob @ F=1MHz				CUT-O	FF FR	EQ
PART	Max	Vce	5	Min	Voe	b	TYP	Max	ko	1b	Max	Vin	Max	Voo	Vin	Max	10	10	TYP	Max	Vcb	le	1 п	Vce	k
NUMBER	M I	M	(mA)	M	8	(mA)	8	8	(mA)	(mA)	(mA)	0	(uA)	M	M	M	(mA)	(mA)	(pF)	(pF)	8	(mA)	(MHz)	M	(mA)
DTC113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114E	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114W	0.8	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC115E	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC115U	3.3	5	0.1	1.5	0.3	1	0.1	0.3	7	0.2	0,1	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC123E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	03	5	0.25	3	6	10	0	250	10	5
DTC123J	0.5	5	0.1	1.1	0.3	5	0.1	0.3	5	0.25	3.6	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC123Y	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC124E	0.5	5	0.1	3	0.2	5	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	- 6	10	0	250	10	5
DTC124X	0.4	5	0.1	25	0.3	2	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143E	0.5	5	0.1	3	0.3	20	·0.1	0.3	10	0.5	1.8	5	-10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143X	0.3	5	0.1	2.5	0.3	20	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143Y	0.3	5	0.1	3	0.3	10	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	the second s	0.25	3	6	10	0	250	10	
DTC143Z	0.5	5	0.1	1.3	0.3	5	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3		0.25	3	6	10	-	250	10	- 5
DTC144E	0.5	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.18	5	10	30	0	0.3	-	0.25	3	6	10	-	250	10	
DTC144V	1.0	5	0.1	6	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	The second division of	0.25	3	6	10	ŏ	250	10	一귀
DTC144W	0.8	5	0.1	4	0.3	2	0.1	0.3	10	_	0.16	5	10	30	ō	0.3	_	0.25	3	6	10	-01	250	10	
DTC214Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	_	0.25	3	6	10	-01	250	10	
DTC1D3R	1.5	5	0.1	4	0.3	5	0.1	0.3	10	1	3.7	- 5	10	30	0	0.3	_	0.25	3	6	10	-01	250	10	

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	Vin(o	ff)		Vin(o	n)		Vo	(on)			lb		Ic(OF	F)		Voe(S	AD		Cob	ର F=1	MHT		<u>сл-о</u>		50
PART	Max	Vce	k	Min	Vce	k	TYP	Max	k	Ъb	Max	Vin	Max	Voc	Vin	Max	la	Ь	TYP	Max	Vcb	. Je	n [Vce	_
NUMBER		8	(mA)	8	<u></u>	(uA)	3	8	(mA)	(mA)	(mA)	3	(uA)	3	Ø	8	(mA)	(mA)		(pF)	ŝ	(mA)		8	kc (mA)
DTC143T	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	72	5	10	- 30	0	0.3	5	0.25	3	6	10	<u> </u>	250	10	-5
DTC114T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	1	3		10	0	250	10	
DTC124T	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.5	- ž		10				
DTC144T	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3		0.5		0	_	0	250	10	2
DTC115T	0.5	5	0.1	3	0.3		***									-		0.5	3	0	10	0	250	10	5
					0.3		0.1	0.3	ິ	0.25	0.15	2	10	30	0	0.3	1	0.1	3	6	10	0	250	10	5
DTC125T	0.8	5	0,1	3	0.3	1	0.1	0.3	5	0.25	0.33	5	10	30	0	0.3	0.5	0.05	3	6	10	0	250	10	
DTC113T	0.5	5	0.1	З	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3					_		_		
	·	_							10							د مت		0.2	3	6	10	0	250	10	5

1 1	Vin(of	1)		Vin(o	n)		Vo	(on)			đ		lc(OF	F)		Vce(S	AD		Cob (@ F=1	MHT		CUT-O		FO
PART	Max	Vce	ð	Min	Vce	ð	TYP	Max	x	b	Max	Vin	Max	Voc	Vin	Max	ka	Ь	TYP	Max	Vcb	le l	rr l	Vce	
NUMBER	3	(M)	(mA)	S	S	(uA)	S	M	(mA)	(mA)	(mA)	ŝ	(uA)	ω I	3	M	(mA)	(mA)	(pF)	(oF)	~	(mA)	(MHz)	ŝ	(mA)
DTC114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	(110~)
DTC124G	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	88.0	5	10	30	0	0.3	10	0.5	3	- 6	10	0	250	10	
DTC144G	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	10	0.5	2		10	0		-	
DTC115G	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3		0.25					250	10	
DTD114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	50	2.5			10 10	0	250	10	5

ELECTRICAL CHARACTERISTICS: 500 mA Series

	Vin(o	ĭ)		Vin(o	n)		Vo	(on)			lb		Ic(OF	F)		Vce(S	AD		Cob	a	MA		CIT O		
PART	Max	Vce	ic	Min	Vce	k	TYP	Max	k	Шь	Max	Vin	Max	Voc	Vin	Marx				ĩ,			сл-о		EQ
NUMBER	M	∞	(mA)	8	3	(uA)	S	3	(mA)				(uA)	ŝ	S	N N		b (mA)	TYP	Max	Vcb		n l	Vce	lc
DTD113E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	7.2	5	10	30	6	0.3		0.25	(pF)	(pF)	M	(mA)			(mA)
DTD113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	50	2.5	7.2	5	10	30	0	0.3	-			0	10	0	200	10	50
DTD114E	0.5	5	0.1	3	0.3	10	0.1	0.3	50		0.68	5	10	30			-	0.25	3	8	10	0	200	10	50
DTD123E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	3.8		_		0	0.3		0.25	3	6	10	0	200	10	50
DTD143E	0.5	5	0.1	3	0.3	20	0.1	0.3		_		3	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD123Y	0.3	5	0.1	2	-		_	-	50	2.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD122J	0.3				0.3	20	0.1	0.3	50	2.5	3.0	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
			0.1	2	0.3	30	0.1	0.3	50	2.5	4.5	5	10	30	0	0.3	5	0.25	3		10	0	200	10	50
DTD133H	0.3	5	0.1	2	0.3	_ 20	0.1	0.3	50	2.5	24	5	10	30	0	0.3	5	0.25	3			<u> </u>		-	
													-				-			0	10	0	200	10	50

	Vin(of	T)		Vin(o	n)		Yo	(ino)			lb		Ic(OF	Ð		Marte									
PART	Max	Vce	ic	Min	Vce	lc lc	TYP	Max	k	lb	Max	Vin	Mex	Voc	Vin	Vce(S			Cob	@ F=1	MHz		CUT-0	FF FR	IEQ
NUMBER	3	m	(mA)	m	3	(114)	M	~	(mA)				(UA)	V0C	VIII.	Mex	l ic	b	TYP	Max	Vcb	le i	n l	Vce	k
DTD123T	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	<u> </u>	10	30		- <u></u>	(mA)	1.1.1.4	(pF)	(pF)	()	(mA)	(MHz)	M	(mA)
DTD143T	0.5	5	0.1	3	0.3	10	0.1	0.3	10		0.88		10	30	0	0.3		0.25	3	6	10	0	200	10	5
DTD163T	Q.8	5	0.1	3	0.3	2	0.1	0,3	5	0.25	_				0	0.3		0.25	3	6	10	0	200	10	5
DTD114T	0.3	5	0.1	1.4	0.3		011	0.3	- ž	-	1,8		10	30	0	0.3	5	0.25	3	6	10	0	200	10	5
·					0.0		0.1	0.3	3	0.25	0.88	5	10	_ 30	0	0.3	5	0.25	3	6	10	0	200	10	5

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DIGITAL TRANSISTOR: NPN

ELECTRICAL CHARACTERISTICS: 100 mA Series

		RESISTO	R VALUE		R2/R	1	k	INPU	T VOLT	hFE			Icbo		loso		J	[
PART	TYP	R1	R2	Min	Тур	Max	Max	Min	Max	Min	Voe	k	Max	Vob	Max	Vce	PART	DIE	EQUIVALENT
NUMBER	i	(K)	(K)				(mA)	M.	<u>_</u> M		S	(mA)	(uA)	M	(uA)	8	MARK	TYPE	CIRCUIT
DTC113Z	NPN	1.0	10.0	8	10	12	100	-10	5	33	5	5	0.5	50	0.5	50	E12/121	C776	
DTC114E	NPN	10.0	10.0	0.8	1	1.2	100	-40	10	30	5	5	0.5	50	0.5	50	24	C766	
DTC114W	NPN	10.0	4.7	0.37	0.47	0.57	100	30	10	24	5	10	0.5	50	0.5	50	84	C778	
DTC114Y	NPN	10.0	47.0	3.7	4.7	5.7	100	4	6	68	5	5	0.5	50	0.5	50	64	C762	
DTC115E *	NPN	100.0	100.0	0.8	1	1.2	100	49	10	82	5	5	0.5	50	0.5	50	29	D861	
DTC115U	NPN	100.0	10.0	0.08	0.1	0.12	100	4	10	27	5	5	0.5	50	0.5	50	E89/189	D665	
DTC123E	NPN	2.2	2.2	0.8	1	12	100	-12	10	8	5	20	0.5	50	0.5	50	22	C733	
DTC123J	NPN	2.2	47.0	17	21	26	100	-12	5	80	5	10	0.5	50	0.5	50	E42/142	C774	
DTC123Y	NPN	2.2	10.0	3.6	4.5	5.5	100	-12	5	33	5	10	0.5	50	0.5	50	62	C777	Ri (Datata)
DTC124E	NPN	22.0	22.0	0.8	1	1.2	100	-40	10	58	5	5	0.5	50	0.5	50	25	C781	(Base) R25
DTC124X	NPN	22.0	47.0	1.7	21	2.6	100	40	10	65	5	5	0.5	50	0.5	50	45	C770	~
DTC143E	NPN	4.7	4.7	0.8	1	1.2	100	-30	10	20	5	10	0.5	50	0.5	50	23	C768	د بندهمی ۲۹۵۵ (۲۰۰۰ میلید از ۲۰۰۰ میلید (تشکیل از ۲۰۰۰ میلید از ۲۰
DTC143X	NPN	4.7	10.0	1.7	2.1	26	100	-20	7	30	5	10	0.5	50	0.5	50		C769	
DTC143Y	NPN	4.7	22.0	3.7	4.7	5.7	100	-30	6	56	5	5	0.5	50	0.5	50		C785	
DTC143Z	NPN	4.7	47.0	8	10	12	100	-30	5	80	5	10	0.5	50	0.5	50		C775	
DTC144E	NPN	47.0	47.0	0.8	1	1.2	100	-40	15	68	5	5	0.5	50	0.5	50		C782	
DTC144V	NPN	47.0	10.0	0.17	0.21	0.26	100			33	5	5	0.5	50	0.5	50		C774	
DTC144W	NPN	47.0	22.0	0.37	0.47	0.57	100	-40	10	56	5	5	0.5	50	0.5	50		C757	
DTC214Y	NPN	10	47	3.7	4.7	5.7	100	-40	6	68	5	5	0.5	50	0.5	50		C762	
<u>}</u>	NPN	2.7		0.33		0.41	100	-15	15	20	5	30	0.5	50	0.5	50		C784	

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		RESISTO	R VALUE	Vcbo	Vceo	Vebo	ic		hFE			^	Icbo		lebo				
PART	TYP	R1	R2	Max	Max	Max	Max	Min	Тур	Max	Vce	k	Max	Vcb	Max	Veb	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	M	S	3	(mA)				8	(mA)	(uA)	M	(uA)	M	MARK	TYPE	CIRCUIT
DTC143T	NPN	4.7	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	3	C764	
DTC114T	NPN	10.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	4	C765	
DTC124T	NPN	22.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	the second value of the se	C771	Re Colora
DTC144T	NPN	47.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4		C772	
DTC115T	NPN	100.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	_	D664	
DTC125T	NPN	200.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5			D863	-
DTC113T	NPN	1.0	NONE	50	50	5	100	100	250	600	5	1	0.5		0.5			C786	

••		RESISTO	R VALUE	Vcbo	Voeo	Vebo	k		hFE				icbo		lebo	1			
PART	TYP	R1	R2	Max	Max	Max	Max	Min	Тур	Max	Vce	İC	Max	Vcb	Max	Veb	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)	8	3	ŝ	(mA)				3	(mA)	(uA)	6	(uA)	m	MARK	TYPE	CIRCUIT
DTC114G	NPN	0	10.0	50	50	5	100	30	-	•	- 5	5	0.5	50	580	4	K24	C780	
DTC124G	NPN	0	22.0	50	50	5	100	56		<u> </u>	5	5	0.5	50	260		_	C781	Base commenced and a contraction of Calassian
OTC144G	NPN	0	47.0	50	50	5	100	68	•		5	5	0.5		130		The second se	C782	
DTC115G	NPN	0	100.0	50	50	5	100	82		1.	5	5	0.5	50	58				~
DTD114G	NPN	0	10.0	50	50	5	500	58			5	100	0.5	-	0.5			D862 D726	Land and the second sec

ELECTRICAL CHARACTERISTICS: 500 mA Series

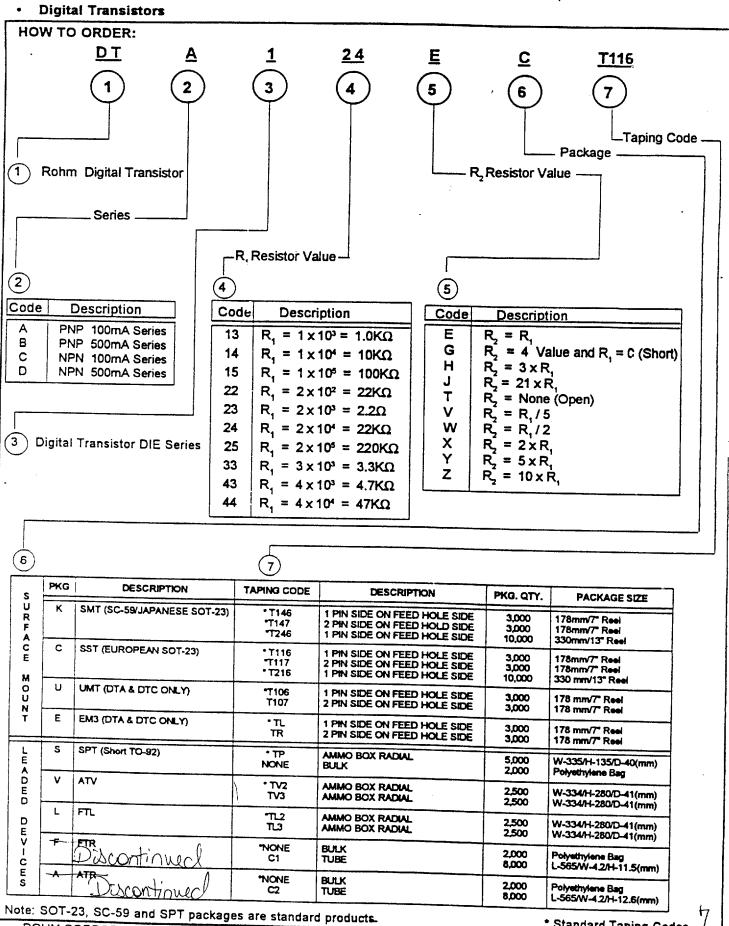
		RESISTO	R VALUE		R2/R	1	k	INPU	T VOLT	hFE		-	lcbo		loso	1		1	1
PART	ТҮР		R2	Min	Тур	Max	Max	Min	Max	Min	Voe	k	Max	Vcb	Mator	Voe	PART	DIE	EQUIVALENT
NUMBER		(K)	(K)				(mA)	M	3		S	(mA)	(uA)	(M)	(uA)	M	MARK	TYPE	
	NPN		1.0	0.8	1	1.2	500	-10	10	33	5	50	0.5	50	0.5	50	F21	D717	
DTD113Z	NPN	1.0	10.0	8	10	12	500	-10	5	56	5	50	0.5	50	0.5	50	The second s	D718	
DTD114E	NPN	10.0	10.0	0.8	1	1.2	500	-40	10	56	5	50	0.5	50	0.5	50		D714	
DTD123E	NPN	2.2	22	0.6	1	1.2	500	-12	10	39	5	50	0.5	50	0.5	50	and the second se	D712	No
DTD143E	NPN	4.7	4.7	0.8	1	1.2	500	-30	10	47	5	50	0.5	50	0.5	50	The state of the local division of the local	D712	(Base) (Creative
DTD123Y	NPN	2.2	10.0	3.6	4.5	5.5	500	-12	5	56	5	50	0.5	50	0.5	50	_		
DTD122J	NPN	0.22	4.7	17.1	21.3	25.6	500	-5	5	47	5	50	0.5	50	0.5	50		D715	
DTD133H	NPN	3.3	10.0	24	3	3.7	500	-20	6	56	5	50	0.5	50			the second s	D725	
			,		· · · · · ·			20	0	- 20	3		0.5	3	0.5	50	G06	D719	

		RESISTO	R VALUE	Vcbo	Voec	Vebo	\ Ic		hFE				icbo		lebo			T	ľ
PART	TYP	R1	R2	Max	Max	Max	Max	Min	Typ	Max	Voe	k	Mate	Vcb	-	[Val	PART	DIE	50000000
NUMBER		(K)	(K)	M	3	M	(mA)				m	(mA)	1		(uA)		MARK	TYPE	EQUIVALENT
DTD123T	NPN	22	NONE	50	50	5	500	100	250	600	5	50	0.5		0.5			0723	CIRCUIT
DTD143T	NPN	4.7	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5			D720	Rt Construction
DTD163T	NPN	6.8	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5			-	
DTD114T	NPN	10.0	NÔNE	50	50	5	500	100	250	600		50						D721	
					~			100	230	000	3	50	0.5	50	0.5	4	E04	0722	

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ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 FAX (615)641-2022

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0.3 - 0.6

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0.15 ± 0.05

0.7 ±0.1

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0.1

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2.9± 0.2 1.9 = 0.2

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(n)

(1)

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SMT (SC-59/Japanese SOT-23)

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UMT

(3)

G.3 ±0.1

(1) Emilia (2) Sime (3) Called

1.25 ±0.1 2.120.1

(1) Emitte (2) Base (3) Collect

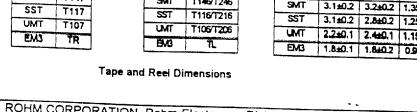
1.6 -0.2 -0.1

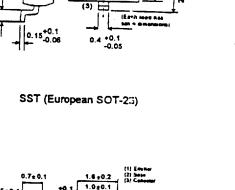
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0.2

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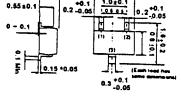
1.9 2 0.2 0.95 0.95

(2

2.4 10 2

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(1)



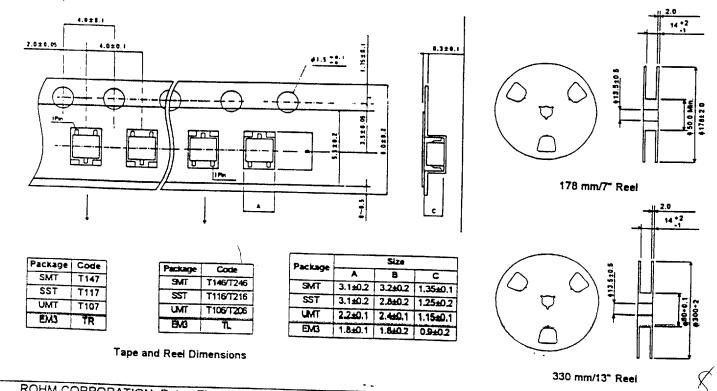
+0.2 0.95

0.45 ±0.1

0 - 0.1

0.2 Min.

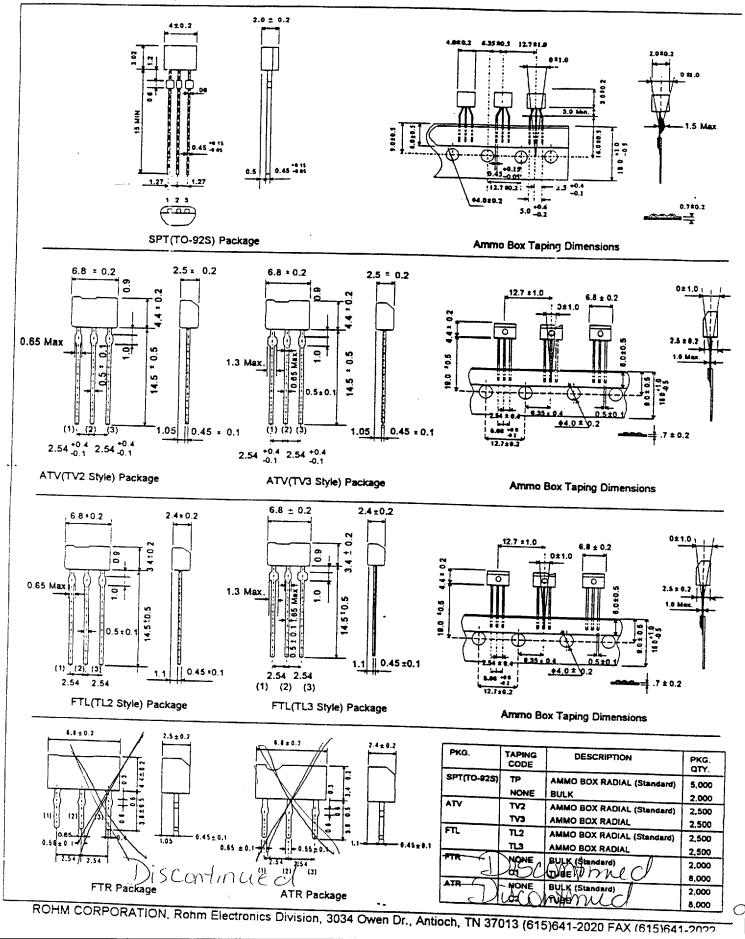
EM3



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Rehn

Leaded (thru-hole) Packages



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