

SB30-03T

Schottky Barrier Diode

30V, 3A Rectifier

Applications

• High frequency rectification (switching regulators, converters, choppers).

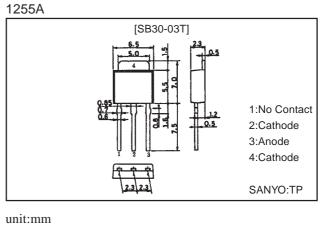
Features

- · Low forward voltage (V_F max=0.55V).
- \cdot Fast reverse recovery time (trr max=30ns).
- · Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

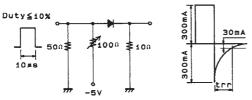
unit:mm

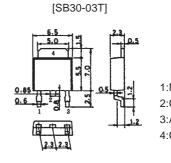
1256A



trr Test Circuit

Specifications





1:No Contact 2:Cathode 3:Anode 4:Cathode

SANYO:TP-FA

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		35	V
Average Output Current	lo	50Hz, resistive load, Tc=110°C	3	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

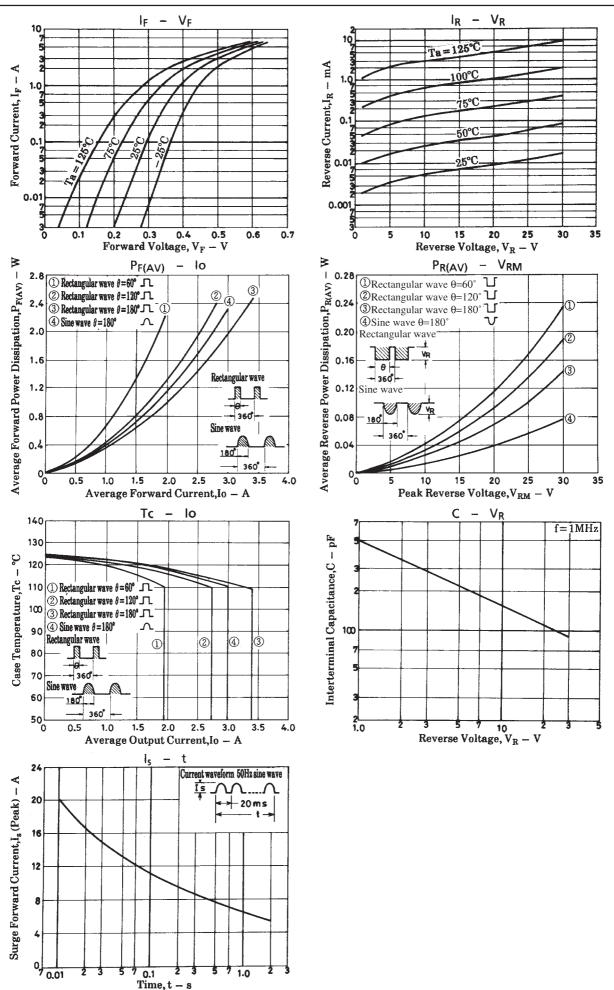
Electrical Characteristics at Ta = 25°C

Absolute Maximum Ratings at Ta = 25°C

Parameter		Conditons	Ratings			Unit
	Symbol		min	typ	max	
Reverse Voltage	VR	I _R =1mA	30			V
Forward Voltage	VF	I _F =3A			0.55	V
Reverse Current	I _R	V _R =15V			200	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		160		pF
Reverse Recovery Time	trr	I _F =I _R =300mA, See sepcified Test Circuit			30	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)			90		°C/W
Thermal Resistance (Junction-Case)	Rthj(j-c)			6		°C/W

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