

SVR1118 SERIES



SOLID STATE DEVICES, INC.

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Electrical Characteristics ^{4/}			t°	SYMBOL	MIN	TYP	MAX	UNITS
Quiescent Current	V _{IN} = 5V	No Load	*	V _{IN}	--	0.6	1.0	mA
			*	V _{IN}	--	1.0	10	: A
Enable Input Thresholds	Input Low Level	Input High Level	*		0.4	1.4	--	V
			*		--	1.4	2	V
Output Voltage	SVR1118-2.5	No Load	25	V _{OUT}	2.47	2.5	2.53	V
		All Operating Conditions ^{5/}	*		2.45	2.5	2.55	V
	SVR1118-2.85	No Load	25		2.82	2.85	2.88	V
		All Operating Conditions ^{5/}	*		2.79	2.85	2.91	V
	SVR1118-5	No Load	25		4.95	5.0	5.05	V
		All Operating Conditions ^{5/}	*		4.90	5.0	5.10	V
Line Regulation (I _{OUT} = 0A)	SVR1118-2.5	(4.2V # V _{IN} # 15V)	*	$\frac{\Delta V_{OUT}}{\Delta V_{IN}}$	--	--	6.0	mV
	SVR1118-2.85	(4.75V # V _{IN} # 15V)	*		--	--	6.0	mV
	SVR1118-5	(6.5V # V _{IN} # 20V)	*		--	--	10	mV
Load Regulation ^{6/}	SVR1118-2.5	(0#I _{OUT} #800mA)	*	$\frac{\Delta V_{OUT}}{\Delta I_{OUT}}$	--	--	10	mV
		(-400mA#I _{OUT} #0)	*		--	--	10	mV
	SVR1118-2.85	(0#I _{OUT} #800mA)	*		--	--	10	mV
		(-400mA#I _{OUT} #0)	*		--	--	10	mV
	SVR1118-5	(0#I _{OUT} #800mA)	*		--	--	25	mV
		(-400mA#I _{OUT} #0)	*		--	--	25	mV
Dropout Voltage ^{7/}		(I _{OUT} = 100mA)	25	ΔV	--	0.85	1.1	V
		(I _{OUT} = 800mA)	25		--	1.0	1.3	V
Ripple Rejection		(f _{ripple} = 120Hz,	25		60	80	--	dB
		V _{ripple} = 0.5 V _{P-P} , ΔV=2V)	25					
Load Transient Settling Time	ΔV = 25V; C _{LOAD} = 1 : F	(0#I _{OUT} #800mA)	25		--	5	--	:sec
		(-400mA#I _{OUT} #0)	25		--	5	--	
Output Short Circuit Current		(V _{OUT} = 0)		I _{SC} ⁺	800	1200	--	mA
		(V _{OUT} = V _{IN})		I _{SC} ⁻	--	-700	-400	mA
Thermal Shutdown Junction Temperature		No Load			--	170	--	°C
Enable Turn-On Delay		No Load			--	50	--	:sec

NOTES:

* Full Temperature Range

^{1/} For Ordering Information, Price, and Availability Contact Factory.

^{2/} Screening per MIL-PRF-19500.

^{3/} For Package Outlines and Lead Bend Options Contact Factory

^{4/} Unless Otherwise Specified, testing done at V_{CC} = 5V (for SVR1118-2.5 and SVR1118-2.85) and at V_{CC} = 7V (for SVR1118-5); C_{LOAD} = 1 : F; I_{LOAD} = 0.

^{5/} All Operating Conditions include the combined effects of Load Current, Input Voltage, and Temperature over each parameter's full range.

^{6/} Load and Line Regulation are tested at a constant junction temperature by low duty cycle pulse testing.

^{7/} Dropout Voltage is defined as a minimum Input to Output Voltage measured while sourcing the specified current.