

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=90°C	l(AV)			•	1.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				30.0				Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.3						Volts	
Maximum DC reverse current TA=25℃ at rated DC blocking voltage TA=100℃	lr	5.0 50.0						μA	
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	CJ	15.0						pF	
Typical thermal resistance (NOTE 3)	Reja	50.0						°C/W	
Operating junction and storage temperature range	Тј,Тѕтс	-65 to +150						°C	

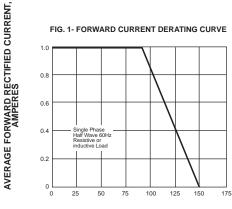
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

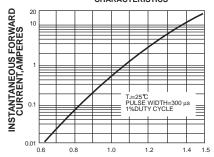


RATINGS AND CHARACTERISTIC CURVES RS1A THRU RS1M

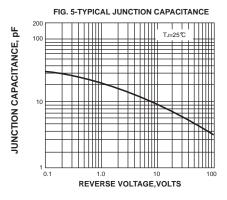


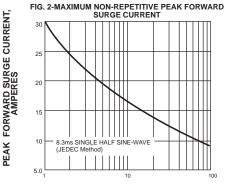
AMBIENT TEMPERATURE,°C





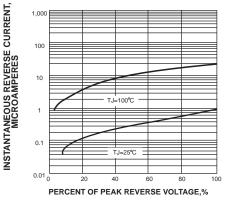
INSTANTANEOUS FORWARD VOLTAGE, VOLTS

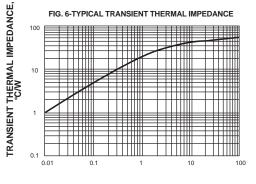




NUMBER OF CYCLES AT 60 Hz

FIG. 4-TYPICAL REVERSE CHARACTERISTICS





t,PULSE DURATION,sec.



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