RS1A THRU RS1M



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1.0Amp Fast Recovery Surface Mounted Rectifiers

General description

1.0Amp Fast Recovery Surface Mounted Rectifiers

FEATURES

- For surface mounted applications
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
- 260 C/10 seconds at terminals

MECHANICAL DATA

- Case: Molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbol marking on body
- Mounting Position: Any

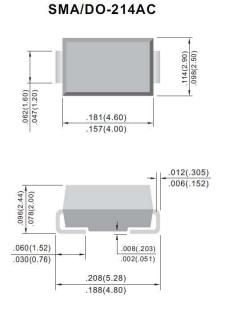
Absolute Maximum Ratings(Ta=25°C unless otherwise specified)

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	SYMBOLS	RS1A	RS1B	RS1D	RS1G	RS1J	RS1J	RS1M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T∟=100°C	l(AV)	1.0							А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	Ifsm	30							A
Maximum instantaneous forward voltage at 1.0A	Vf	1.3							V
Maximum DC reverse current T ₄=25℃ at rated DC blocking voltage T _A =125℃	lĸ	5.0 200							uA
Maxinum reverse recovery time(Note 1)	Trr	150 250 500				00	ns		
Typical junction capacitance (Note2)	CJ	15							pF
Typical thermal resistance	Rqja	55.0							°C/M
Operating junction and storage temperature range	Tj,Tstg	-55 to +150							J.

NOTES: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, Irr=0.25A

2. Measured at 1 MHz and applied Vr = 4.0 volts.



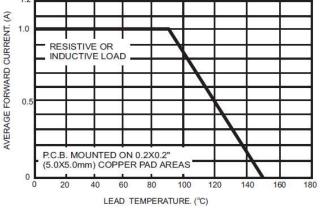
Unit: inch (mm)

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Ratings And Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE





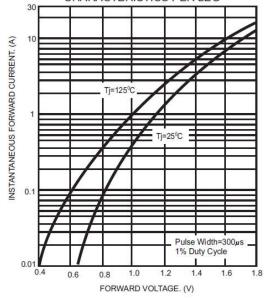
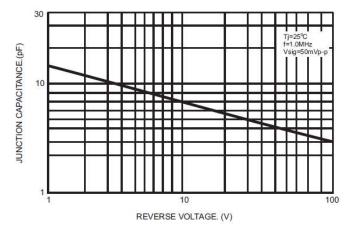
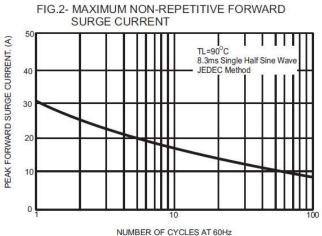


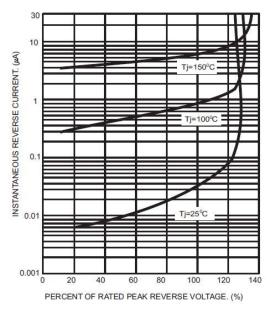
FIG.5- TYPICAL JUNCTION CAPACITANCE





NUMBER OF CYCLES AT 60Hz





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