

Green Products

R1A-R1M 1.0AMP SURFACE MOUNT GLASS FAST RECOVERY RECTIFIER

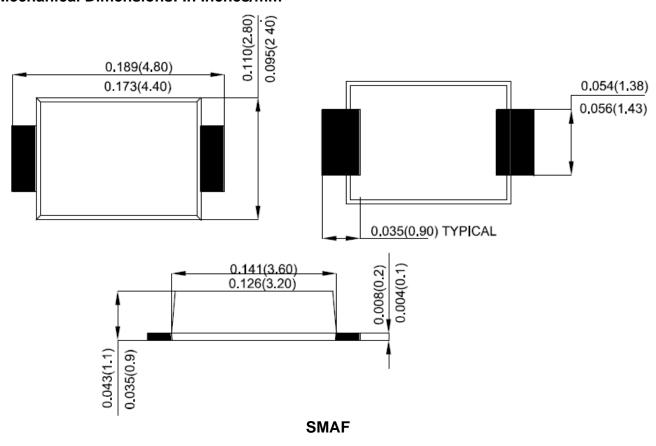
Features:

- · Fast switching for high efficiency
- Low Power Loss, High Efficiency
- High current capability
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classication Rating 94V-0

Mechanical Data:

- Case: SMAF, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Cathode Band or Cathode Notch
- Mounting Position: Any
- Making: Type Number

Mechanical Dimensions: In Inches/mm



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Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Type Number	Symbol	R1A	R1B	R1D	R1G	R1J	R1K	R1M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{DC} \end{array}$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	٧
Average forward rectified output current @T _A = 75°C	Io	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							А
Forward Voltage @I _F =1.0A	V _F	1.3							V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	I _{RM}	5.0 150							μA
Maximum Reverse Recovery Time (Note 1)	Trr	150			250	500		ns	
Typical Junction Capacitance (Note 2)	CJ	12							pF
Typical Thermal Resistance Junction to Ambient (Note 3)	$R_{ heta JA} \ R_{ heta JL}$	100 32							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C
Case Style	SMAF								

Note: 1.Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

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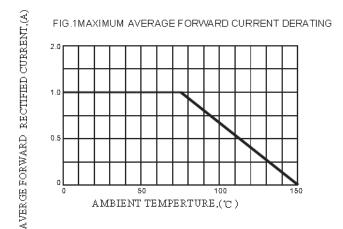
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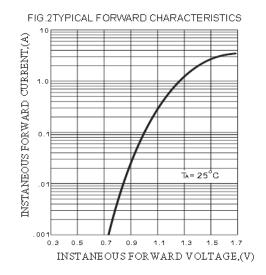
^{2.} Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

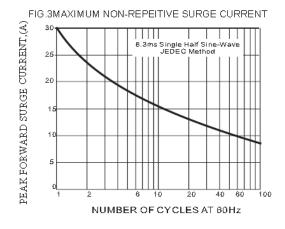
^{3.8.0}mm²(.013mm thick) land areas.

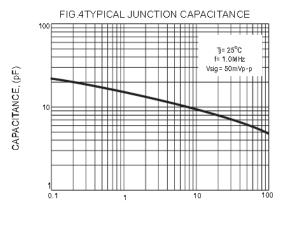


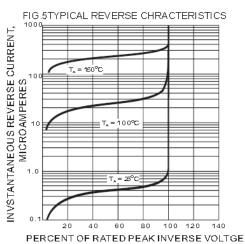
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REVERSE VOLTAGE, (V)

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