

## R1A-R1M 1.0AMP SURFACE MOUNT GLASS FAST RECOVERY RECTIFIER

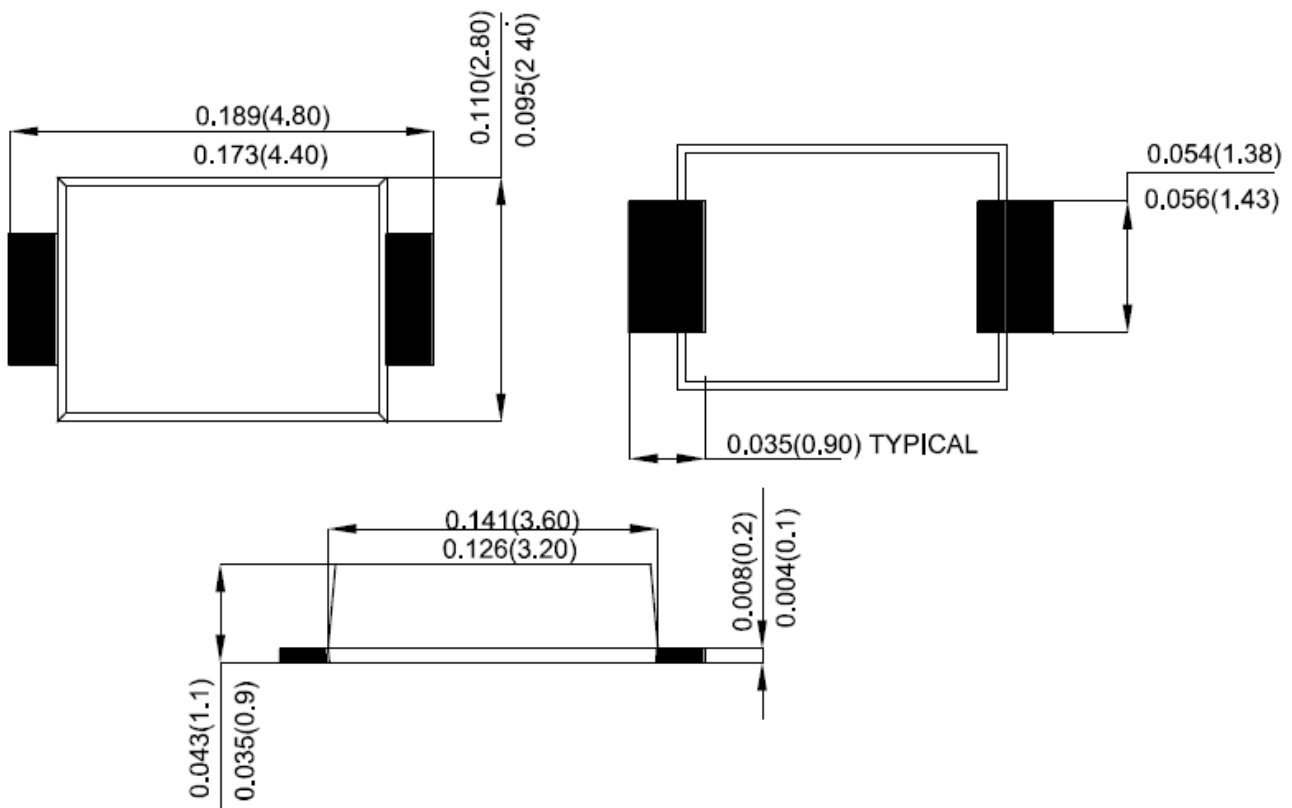
**Features:**

- 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 Classification 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**



**SMAF**

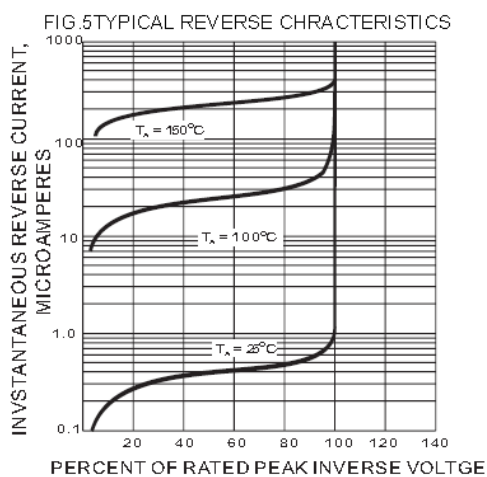
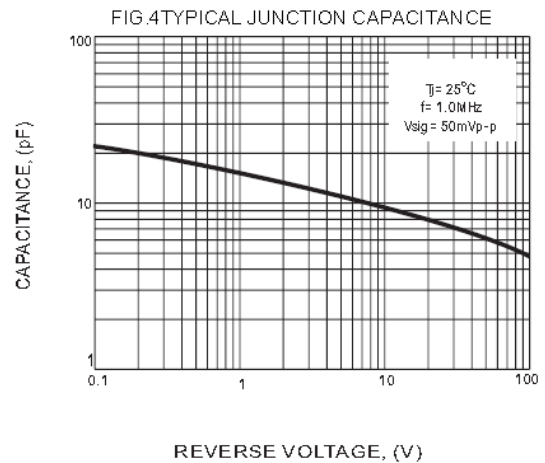
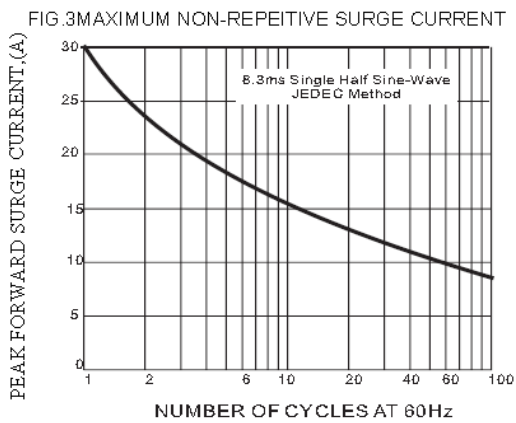
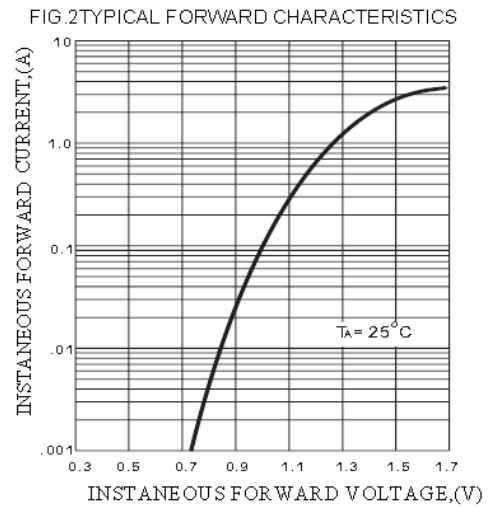
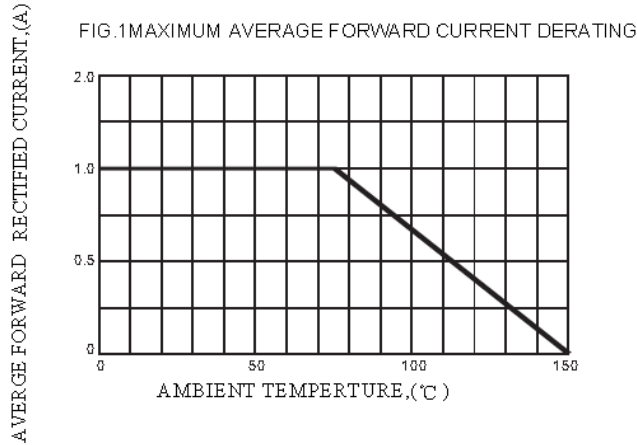
**Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$  unless otherwise specified**

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

Note: 1.Reverse Recovery Test Conditions:  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{RR}=0.25\text{A}$ .  
 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C  
 3.8.0mm<sup>2</sup>(.013mm thick) land areas.

**Technical Data**  
**Data Sheet N1730, Rev. -**

**Green Products**





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