





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
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: JEDEC SMAF molded plastic body
- Terminals: leads solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.038 grams
 Maynting Basition: A
- Mounting Position: Any

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

Type Number	Symbol	R1A	R1B	R1D	R1G	R1J	R1K	R1M	Units
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°C	lo				1.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				30				Α
Forward Voltage @I _F =1.0A	V _F				1.3				V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	5.0 150			μA				
Maximum Reverse Recovery Time (Note 1)	te 1) Trr 150		250	5	00	ns			
Typical Junction Capacitance (Note 2)	Сл	12						pF	
Typical Thermal Resistance Junction to Ambient (Note 3)	R _{θJA} R _{θJL}	100 32					°C/W		
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150					°C		

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

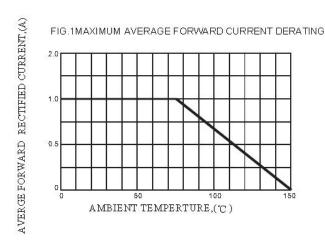
- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3. 8.0mm²(.013mm thick) land areas.
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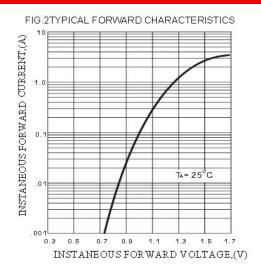


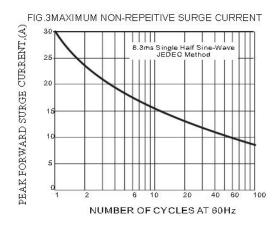


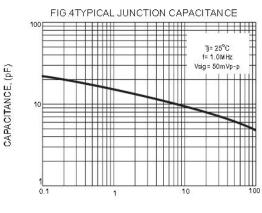


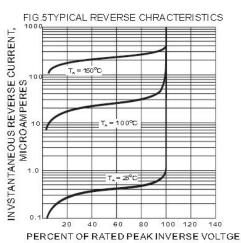
Ratings and Characteristics Curves











REVERSE VOLTAGE, (V)

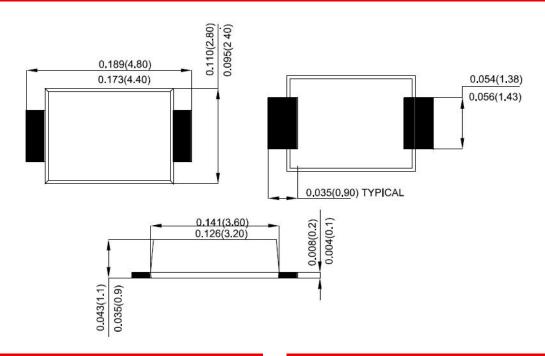
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Mechanical Dimensions SMAF(Millimeters/Inches)

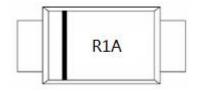


Ordering Information

Device	Package	Shipping			
R1A					
THRU	SMAF (Pb-Free)	3000pcs / reel			
R1M	, ,	•			

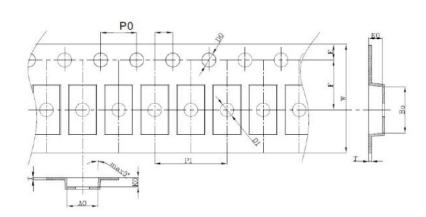
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



R1A = Type Number

Carrier Tape Specification SMAF



SYMBOL	Millimeters				
STWIDUL	Min.	Max.			
A0	2.83	3.03			
B0	2.23	5.43			
K0	1.23	1.43			
P0	3.90	4.10			
P1	3.90	4.10			
P2	1.90	2.10			
T	0.17	0.23			
E	1.63	1.83			
F	5.45	5.65			
D0	1.50	1.60			
D1	1.45	1.55			
W	11.70	12.30			
W	11.70	12.30			

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