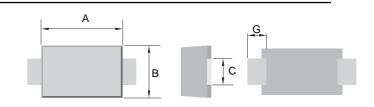


RS1AF-RS1MF

1.0A SURFACE MOUNT GLASS PASSIVATED FAST RECOVERY DIODE

Features

- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O





Mechanical Data

- Case: SMAF, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.037 grams (approx.)
- Lead Free: For RoHS / Lead Free Version

SMAF						
Dim	Min	Max				
Α	3.20	3.60				
В	2.40	2.80				
С	1.38	1.43				
D	0.10	0.20				
Е	4.40	4.80				
F	0.90	1.10				
G	0.90	-				
All Dimensions in mm						

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

Characteristic		Symbol	RS1AF	RS1BF	RS1DF	RS1GF	RS1JF	RS1KF	RS1MF	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current	@T _L = 100°C	lo	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30							A
Forward Voltage	@I _F = 1.0A	VFM	1.3						٧	
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	IRM	10 500						μA	
Reverse Recovery Time (Note 1)		trr			150		250	50	00	nS
Typical Junction Capacitance (Note 2)		Cj	15						pF	
Typical Thermal Resistance (Note 3)		RθJL	30							°C/W
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150							°C

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$. See figure 5.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm² land area.



RS1AF-RS1MF

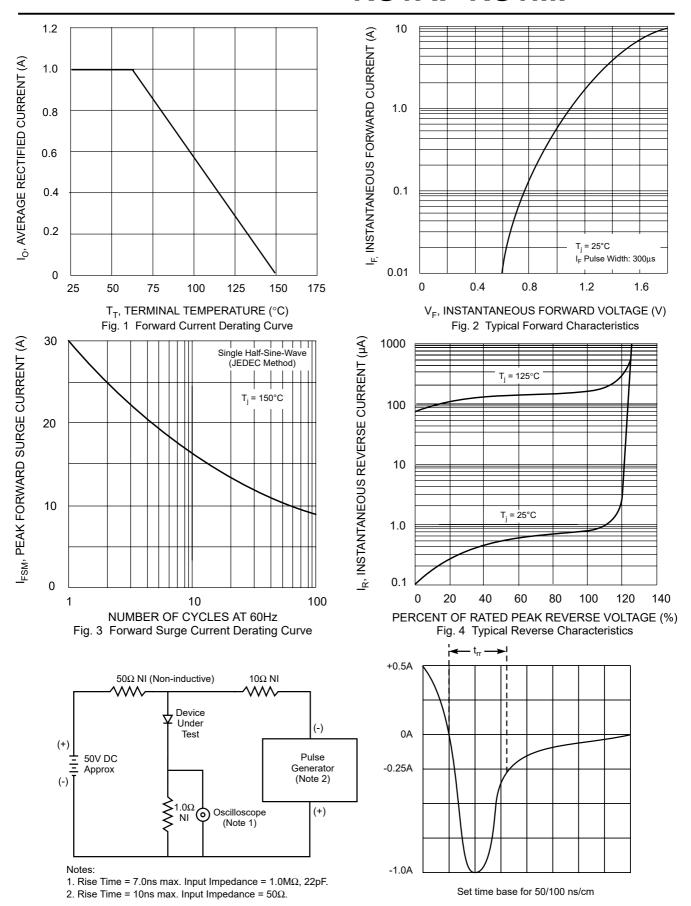


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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CLH07(TE16L,Q) CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF NTE6356 NTE6359 85HFR60 40HFR60 70HF120 85HFR80

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