



1.0 AMP SURFACE MOUNT GLASS FAST RECOVERY RECTIFIER

Features

- Fast switching for high efficiency
- Low Power Loss High Efficiency
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case Molded plastic SMAF
- Terminals Plated leads solderable per Mil-STD-750 Method 2026
- Polarity Color band or Cathode Notch
- Mounting Position Any
- Making Type Number

Maximum Ratings and Electrical Characteristics

- Rating at 25°C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.13	0.15	3.2	3.8	
B	0.09	0.11	2.3	2.7	
C	0.03	0.05	0.8	1.2	
D	0.16	0.2	4	5	
E	/	0.01	/	0.3	
F	0.04	0.08	1	2	

Type Number	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @ $T_L=100^\circ C$	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30							A
Rating for fusing ($t < 8.3ms$)	$I^2 t$	3.74							$A^2 s$
Forward Voltage @ $I_F=1.0A$	V_{FM}	1.3							V
Peak Reverse Current @ $T_A=25^\circ C$	I_R	5.0							uA
At Rated DC Blocking Voltage @ $T_A=125^\circ C$		200							
Maximum Reverse Recovery Time (Note 1)	T_{rr}	150				250	500		ns
Typical Junction Capacitance (Note 2)	C_J	7							pF
Typical Thermal Resistance Junction to Ambient (Note 3)	$R_{\theta JA}$	100							$^\circ C/W$
	$R_{\theta JL}$	32							
Operating Temperature Range	T_J	-55 to +150							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ C$

Note: 1.Reverse Recovery Test Conditions: $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$.

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

3. Device mounted on FR-4 substrate, 1"×1", 2oz, single-sided, PC boards with 0.1"×0.15" copper pad.



AVERAGE FORWARD RECTIFIED CURRENT, (A)

FIG.1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

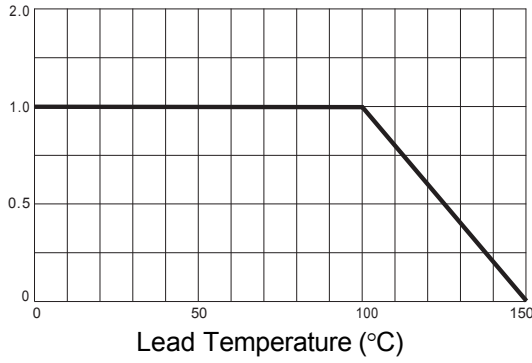


FIG.2 TYPICAL FORWARD CHARACTERISTICS

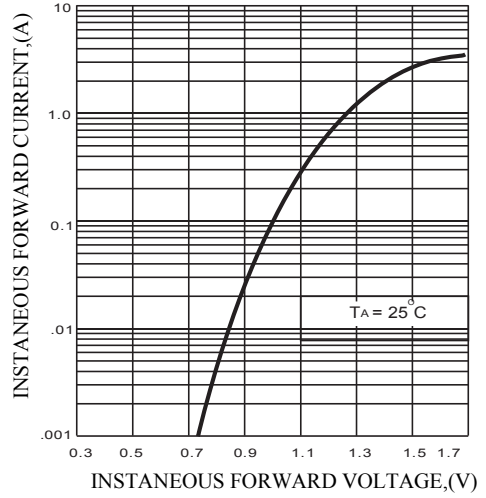


FIG.3 MAXIMUM NON-REPEITIVE SURGE CURRENT

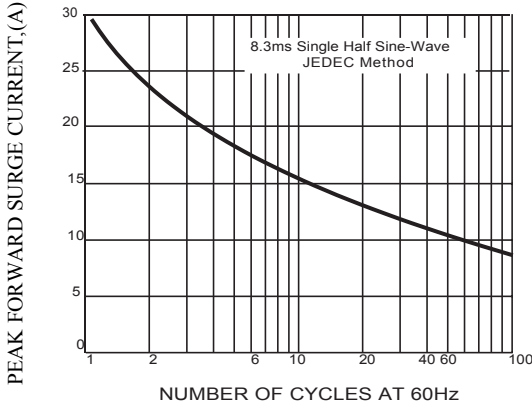


FIG.4 TYPICAL JUNCTION CAPACITANCE

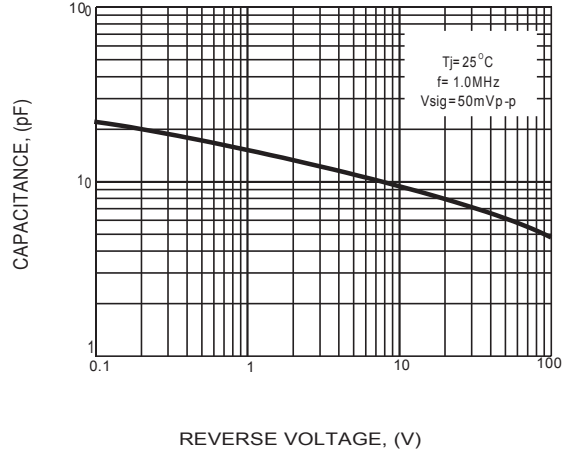
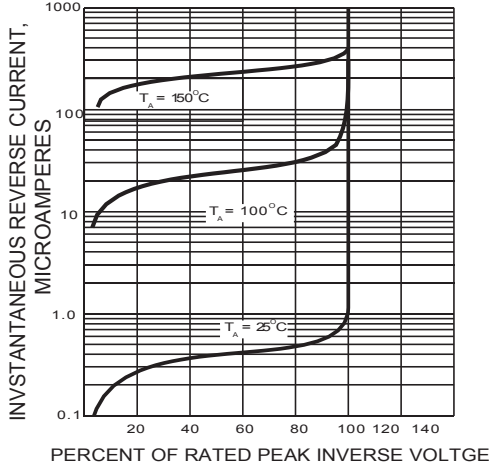
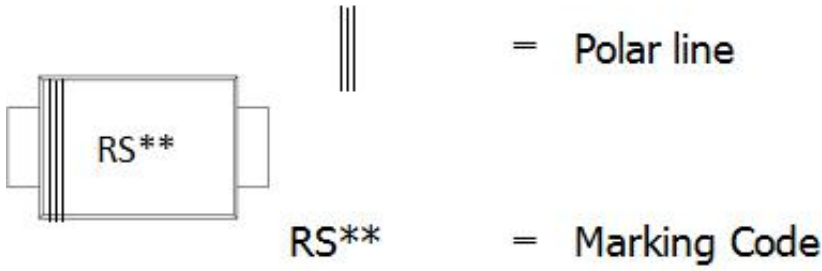


FIG.5 TYPICAL REVERSE CHARACTERISTICS



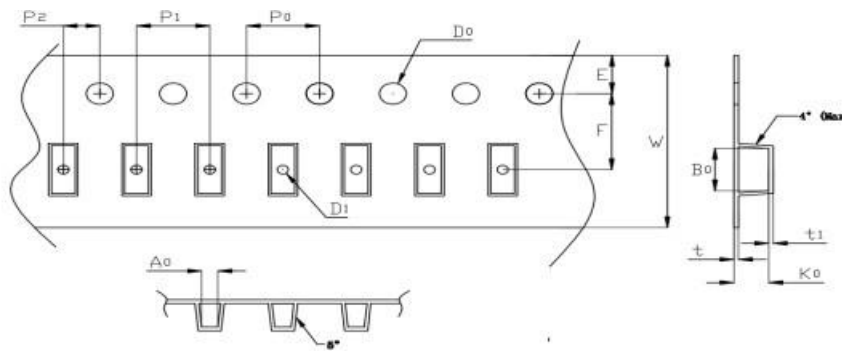


MARKING INFORMATION

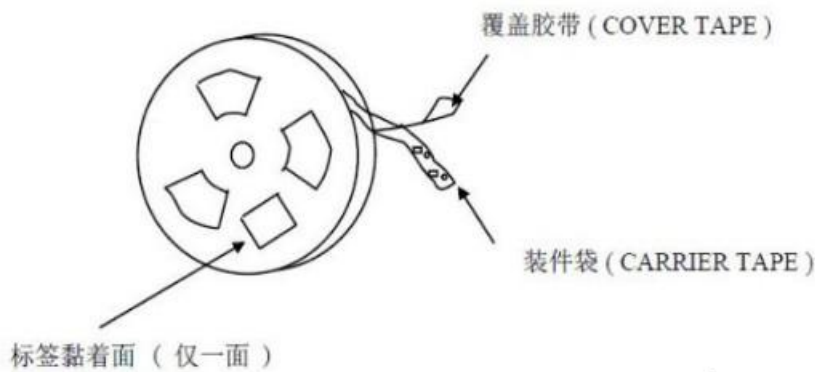


PACKING REQUIRMENTS

• PS transparent anti-static carrier tape packing



Specifications	Carrier tape type	Ao	Bo	Ko	Pa	W	t	Explain
SMAF	Anti-static	2.83± 0.10	4.9± 0.10	1.45± 0.05	4.00± 0.10	12.0± 0.10	0.23± 0.05	



DEVICE TYPE	Tape width	7" Reel		
		Q'TY/REEL (pcs)	BOX/CAR TOON	Q'TY/REEL (pcs)
SMAF	12mm	3000	64	192000



注意事项

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NOTE

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