



1.0AMP Surface Mount Glass Recovery Rectifier

Features

- · For surface mounted application
- · Low forward voltage drop
- · High current capability
- · High reliability
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

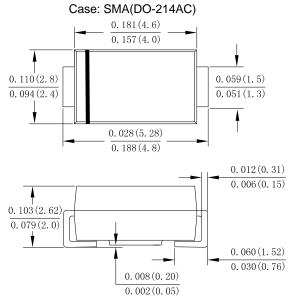
· Case: Molded plastic SMA

 Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed

· Polarity: Color band dentes cathode end

Mounting Position: Any

· Making: Type Number



Dimensions in inches and (millimeters)

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%

Type Number	SYMBOL	M1	M2	M3	M4	M5	M6	M7	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	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	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @TL =100°C	IF _(AV)	1.0							Α
Non-Repetitive Peak Forward Surge @Tj=25 ℃ Current 8.3ms Single half sine-wave @Tj=125 ℃ Superimposed On Rated Load (JEDEC Method)	Ігѕм	30 24							A
Non-Repetitive Peak Forward Surge @ ^T j=25 ℃ Current 1.0ms Single half sine-wave @ ^T j=125 ℃ Superimposed On Rated Load (JEDEC Method)	Ігѕм	60 48							А
10000 times of the wave surge current (time width 1ms, time interval 3s)	Ifsм	22.5							Α
Rating for fusing (t<8.3ms)	l ² t	3.74							A ² s
Forward Voltage @IF=1.0A	V _{FM}	1.0							V
Peak Reverse Current @TA =25°C		5.0							
At Rated DC Blocking Voltage @T _A =125°C	I R	IR 50							uA
Typical Junction Capacitance (Note 1)	Сл	12							pF
Typical reverse recovery time (Note 2)	Trr	1.5							us
Typical Thermal Resistance	Røjl Røja	23 57							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to+150							$^{\circ}$

Note:

- 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 2. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

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Fig. 1 Forward Current Derating Curve

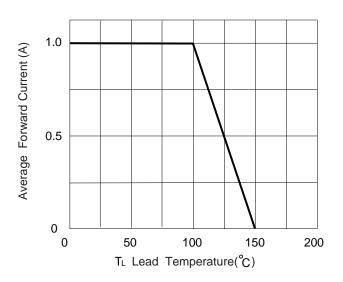


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

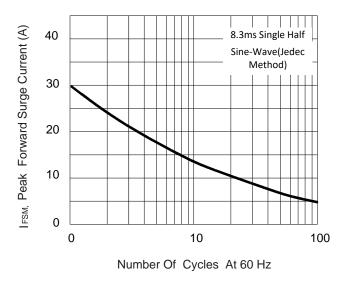


Fig.5 Typical Junction Capacitance

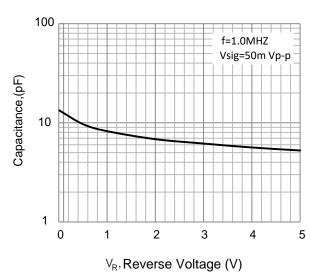


Fig. 2 Typ. Forward Characteristics

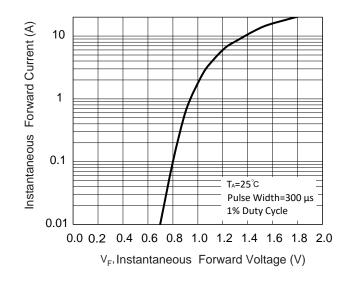
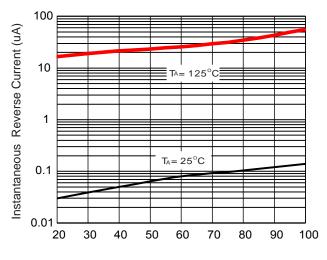
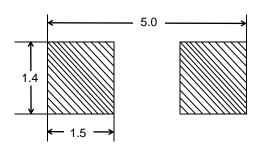


Fig.4 Typical Reverse Chracteristics



Percent Of Rated Peak Reverse Voltage (%)

Fig.6 Mounting PAD Layout



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