

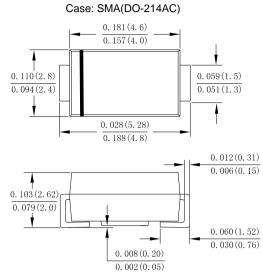
1.0AMP Surface Mount Glass Recovery Rectifier

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	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T =100°C	IF _(AV)	1.0							Α
Non-Repetitive Peak Forward Surge $@T_{j=25}$ $^{\circ}$ C Current 8.3ms Single half sine-wave $@T_{j=125}$ $^{\circ}$ C Superimposed On Rated Load (JEDEC Method)	Ігэм	30 24							Α
Non-Repetitive Peak Forward Surge @T _{j=25} ℃ Current 1.0ms Single half sine-wave @T _{j=125} ℃ Superimposed On Rated Load (JEDEC Method)	IFSM	60 48							Α
10000 times of the wave surge current (time width 1ms, time interval 3s)	FSM	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 @T _A =25 °C		5.0 200							uA
At Rated DC Blocking Voltage @T _A =125°C	- I _R								
Typical Junction Capacitance (Note 1)	CJ	12							pF
Typical reverse recovery time (Note 2)	Trr	1.5							us
Typical Thermal Resistance	Rejl Rejc Reja	23 25 57						°C/W	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to+150							$^{\circ}\!\mathbb{C}$

- 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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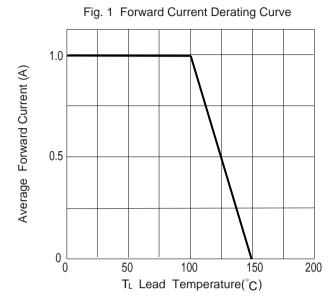


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

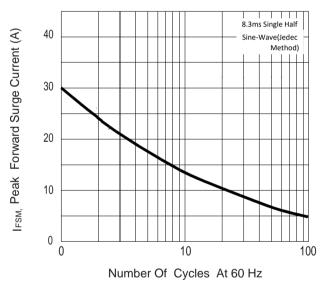
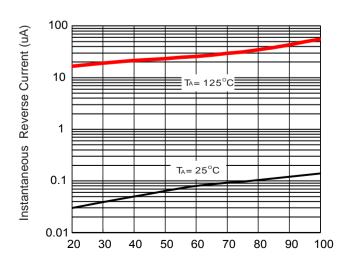


Fig.5 Typical Reverse Chracteristics



Percent Of Rated Peak Reverse Voltage (%)

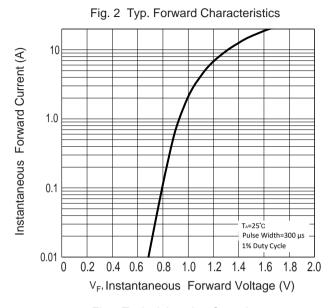


Fig.4 Typical Junction Capacitance

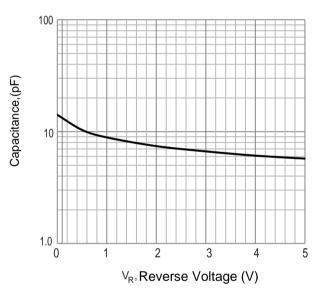
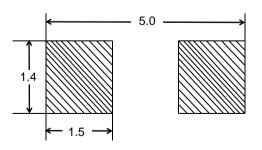


Fig.6 Mounting PAD Layout



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