

GS1AU THRU GS1MU

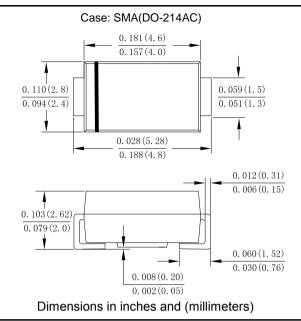
1.0AMP Surface Mount Glass Recovery Rectifier

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



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	GS1AU	GS1BU	GS1DU	GS1GU	GS1JU	GS1KU	GS1MU	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	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 @T∟ =100°C	IF (AV)	1.0							А
Non-Repetitive Peak Forward Surge $@T_{j=25}$ °C Current 8.3ms Single half sine-wave $@T_{j=125}$ °C Superimposed On Rated Load (JEDEC Method)	Ifsm	35 28							A
Non-Repetitive Peak Forward Surge $@T_{j=25} \ C$ Current 1.0ms Single half sine-wave $@T_{j=125} \ C$ Superimposed On Rated Load (JEDEC Method)	IFSM	70 56							A
10000 times of the wave surge current (time width 1ms, time interval 3s)	FSM	24.5							А
Rating for fusing (t<8.3ms)	l ² t	5.39							A²s
Forward Voltage @IF=1.0A	Vfm	1.0							V
Peak Reverse Current @T _A =25 °C At Rated DC Blocking Voltage @T _A =125 °C	IR	5.0 100							uA
Maximum Reverse Recovery Time (Note 1)	Trr	2.0							us
Typical Junction Capacitance (Note 2)	CJ	8							pF
Typical Thermal Resistance	Reja Rejl	105 18							℃/W
Operating and Storage Temperature Range	T_{J},T_{STG}	-55 to+150							°C

Note: 1. Reverse RecoveryTest 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



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Fig. 1 Forward Current Derating Curve

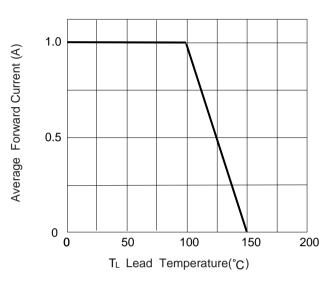
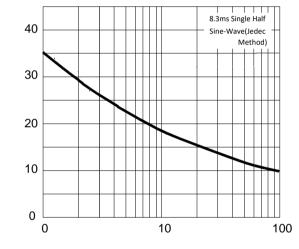
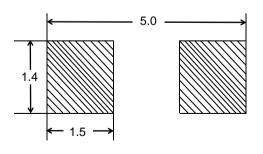


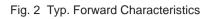
Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

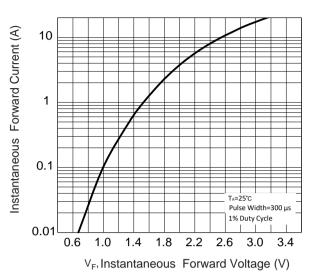


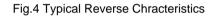
Number Of Cycles At 60 Hz

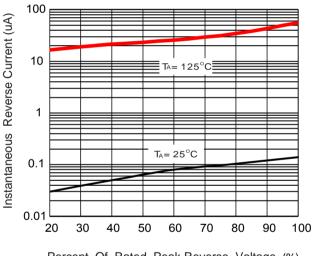












Percent Of Rated Peak Reverse Voltage (%)

I_{FSM,} Peak Forward Surge Current (A)



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