

GS1AU THRU GS1MU

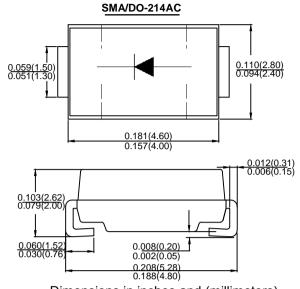
1.0AMP SURFACE MOUNT GLASS RECOVERY RECTIFIER

Features

- · For surface mounted application
- · Low forward voltage drop
- · High current capability
- · High reliability
- · 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	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	V _{DC}	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 $@T_{j=25}$ $^{\circ}$ C Current 8.3ms Single half sine-wave $@T_{j=125}$ $^{\circ}$ C Superimposed On Rated Load (JEDEC Method)	Іғѕм	35 28							Α
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							Α
10000 times of the wave surge current (time width 1ms, time interval 3s)	Ігѕм	24.5							Α
Rating for fusing (t<8.3ms)	l ² t	5.39							A ² s
Forward Voltage @IF=1.0A	V _{FM}	1.0							V
Peak Reverse Current @TA =25 °C At Rated DC Blocking Voltage @TA =125 °C	l _R	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 (Note 3)	Re ja Re jl	105 18						°C/W	
Operating and Storage Temperature Range	T_J , T_{STG}	-55 to+150						$^{\circ}\!\mathbb{C}$	

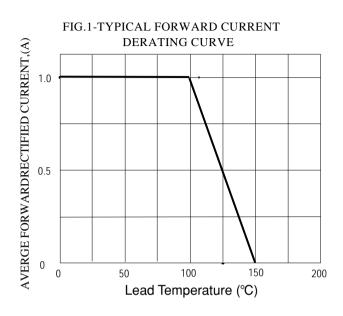
Note

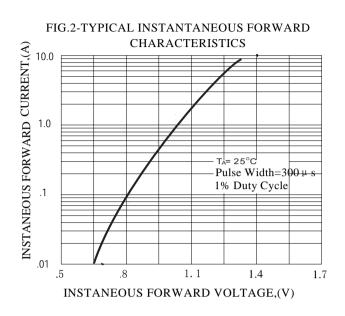
- 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.
- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

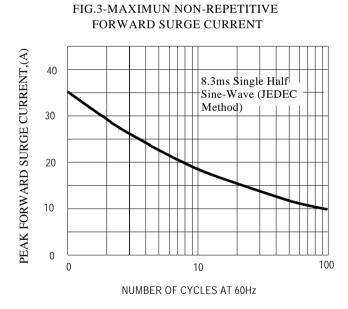
version:03 1of3 www.dvelec.com

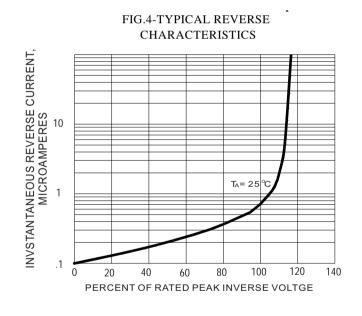


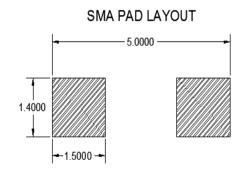
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version:03 3 of 3 www.dyelec.com