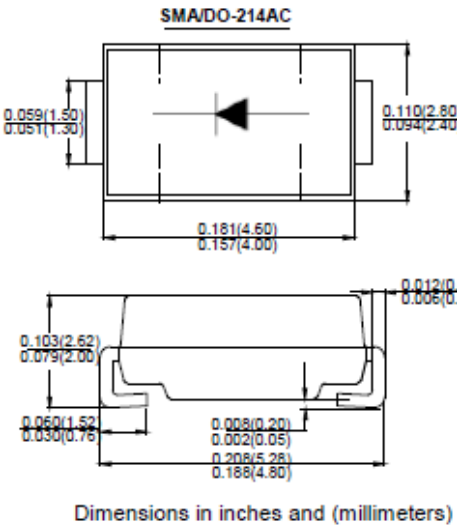
1.0Amp Glass Passivated Rectifier 2000 Volts

GS1Z

Features

- For surface mounted application
- Low forward voltage drop
- High current capability
- High reliability
- Classification Rating 94V- 0



Dimensions in inches and (millimeters)

Mechanical Data

Case: molded plastic SMA/DO-214AC

Polarity: Color band denotes cathode end

Mounting position: Any

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 guaranteed

Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	GS1Z	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	2000	V
Maximum RMS Voltage	V_{RMS}	1400	V
Maximum DC Blocking Voltage	V_{DC}	2000	V
Maximum average forward rectified current @TL = 110℃	$I_{(AV)}$	1.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30	A
Maximum Instantaneous Forward Voltage @ 1.0A	V_F	1.15	V
Maximum DC Reverse Current @ TA=25℃ at Rated DC Blocking Voltage @ TA=100℃	I_R	5.0 50.0	uA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	2500	ns
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150	℃

Note:

1. .Reverse Recovery Test Conditions: IF=0.5A,IR=1.0A,IRR=0.25A

Characteristic Curves

Fig. 1 – Forward Current Derating Curve

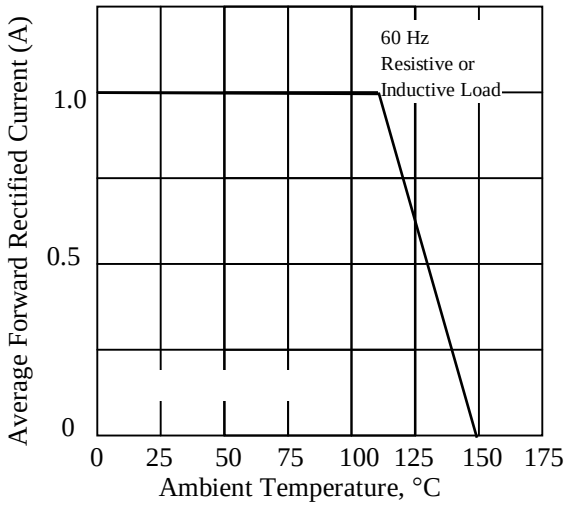


Fig. 2 – Maximum Non-repetitive Peak Forward Surge Current

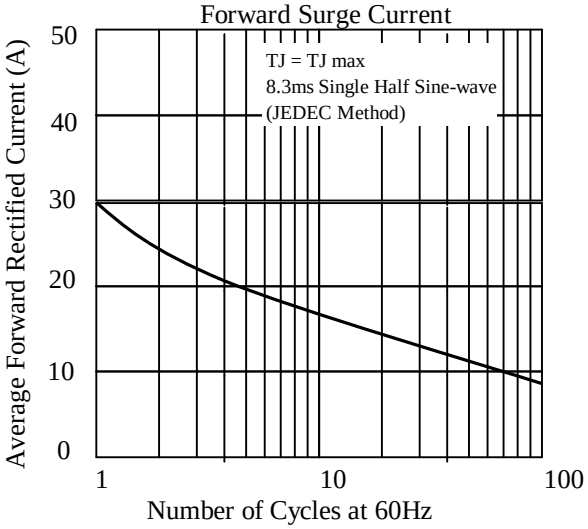


Fig 3. – Typical Instantaneous Forward Characteristics

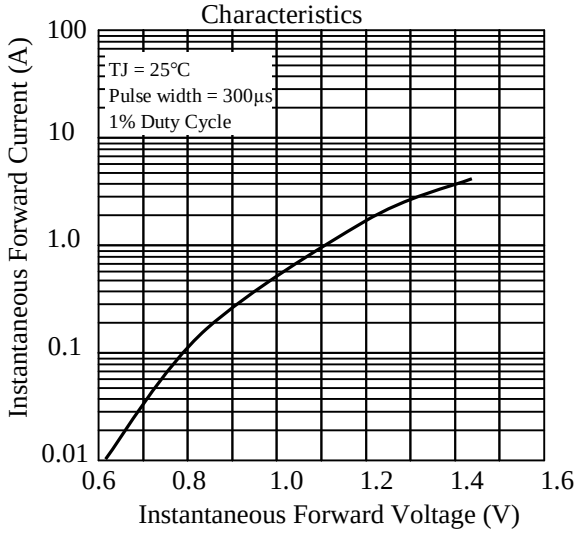


Fig 4. – Typical Reverse Characteristics