

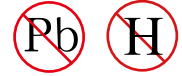


YEA SHIN TECHNOLOGY CO., LTD

GS1Q

SURFACE MOUNT RECTIFIER

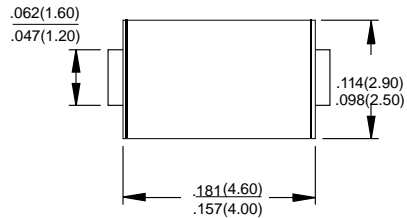
VOLTAGE- 1600 Volts CURRENT - 1.0 Amperes



Features

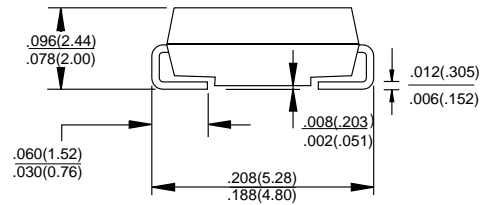
- Glass Passivated Die Construction
• Low forward voltage drop
• High current capability
• High reliability
• Metal silicon junction, majority carrier conduction
• Plastic Material has UL Flammability
Classification Rating 94V-0

SMA/DO-214AC Unit:inch (mm)



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%

Table with 4 columns: Type Number, SYMBOL, GS1Q, Unit. Rows include Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage, Average Rectified Output Current, Peak Forward Surge Current, Forward Voltage, Peak Reverse Current, At Rated DC Blocking Voltage, I^2t Rating for fusing, Typical Junction Capacitance, Typical Thermal Resistance Junction to Ambient, Operating Temperature Range, and Storage Temperature Range.

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
2. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

DEVICE CHARACTERISTICS

GS1Q

FIG.1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

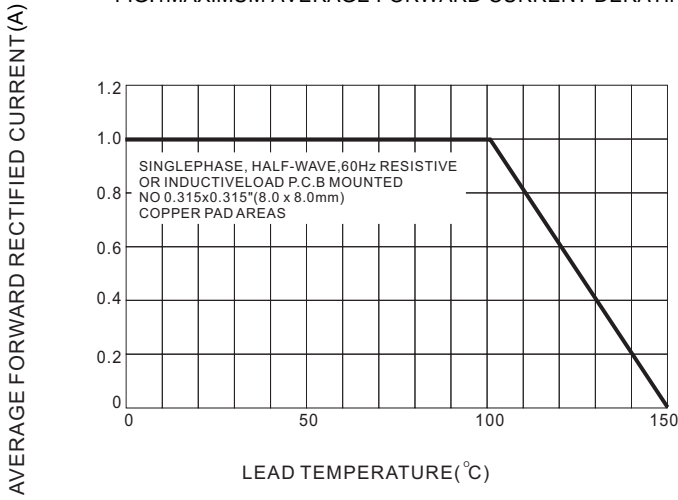


FIG.2-TYPICAL FORWARD CHARACTERISTICS

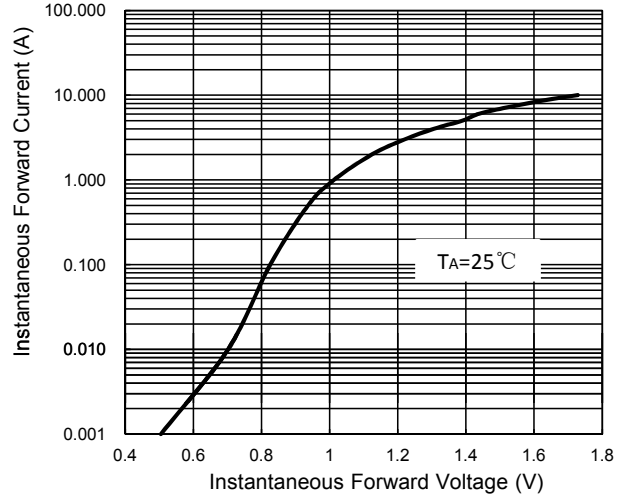


FIG.3 MAXIMUM NON-REPEITIVE SURGE CURRENT

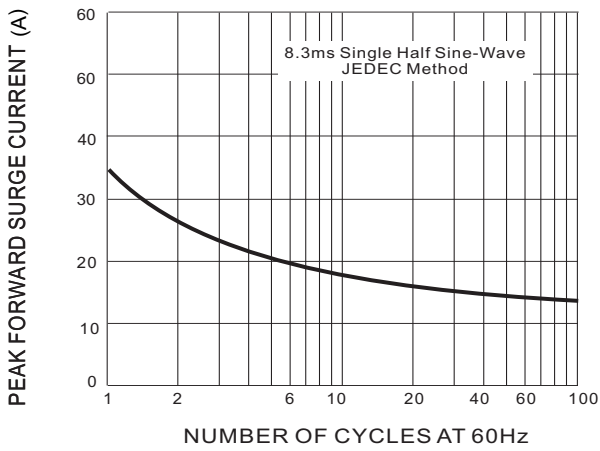


Fig. 4 T typical Reverse Characteristics (per element)

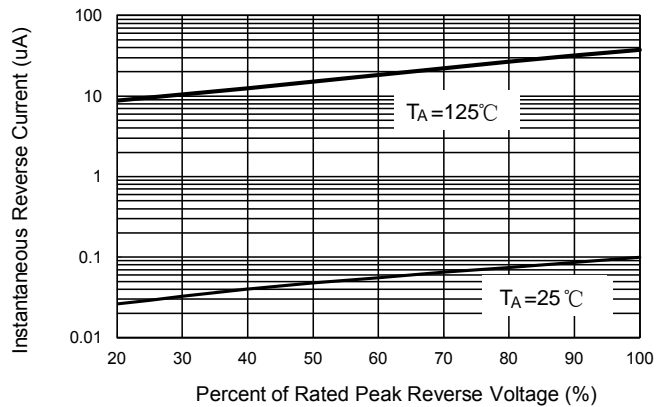


FIG.5 MOUNTING PAD LAYOUT

