SRGP10Q

SINTERED GLASS JUNCTION FAST SWITCHING PLASTIC RECTIFIER

VOLTAGE:1200V CURRENT: 1.0A



FEATURE

High temperature metallurgically bonded construction Sintered glass cavity free junction Capability of meeting environmental standard of MIL-S-19500 High temperature soldering guaranteed 350°C /10sec/0.375"lead length at 5 lbs tension Operate at Ta =55°C with no thermal run away Typical Ir<0.1 μ A

MECHANICAL DATA

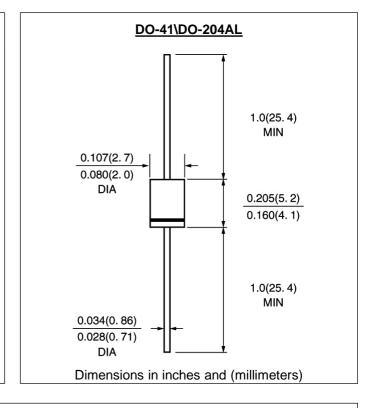
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

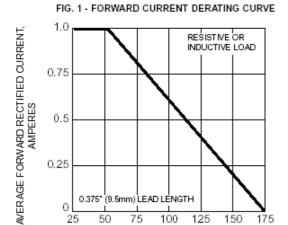
	SYMBOL	SRGP10Q	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1200	V
Maximum RMS Voltage	Vrms	840	V
Maximum DC blocking Voltage	Vdc	1200	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30.0	А
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.3	V
Maximum full load reverse current full cycle average at 55°C Ambient	Ir(av)	100.0	μА
Maximum DC Reverse Current Ta =25°C	lr	5.0	μΑ
at rated DC blocking voltage Ta =150°C		200.0	μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	250	nS
Typical Junction Capacitance (Note 2)	Cj	25.0	pF
Typical Thermal Resistance (Note 3)	R(ja)	55.0	°C /W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	°C

Note:

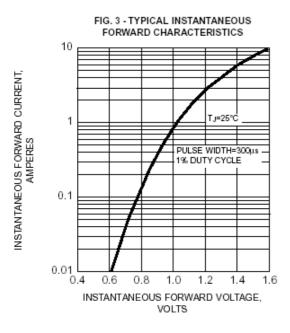
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

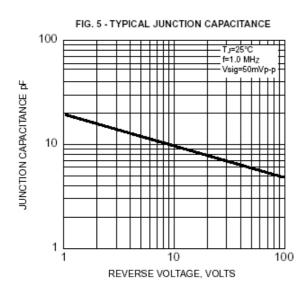
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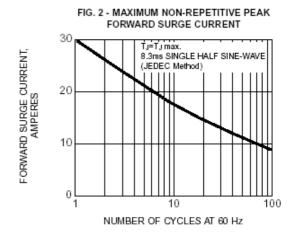
RATINGS AND CHARACTERISTIC CURVES SRGP10Q

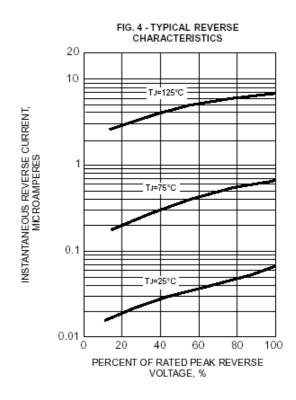


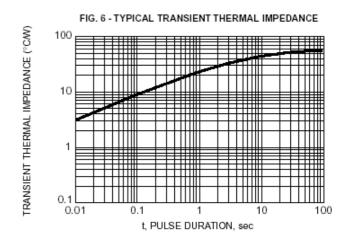
AMBIENT TEMPERATURE, °C











1 Rev.A1 www.gulfsemi.com