GP10A THRU GP10M

SINTERED GLASS JUNCTION PLASTIC RECTIFIER

VOLTAGE:50 TO 1000V 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

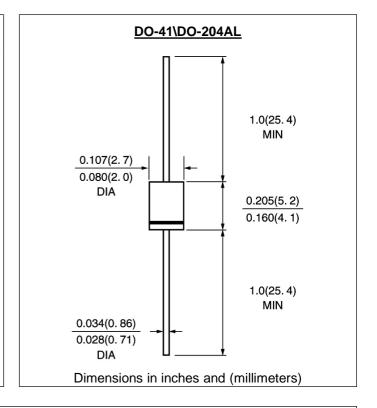
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

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, for capacitive load, derate current by 20%)

	SYMBOL	GP 10A	GP 10B	GP 10D	GP 10G	GP 10J	GP 10K	GP 10M	units
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
Maximum Average Forward Rectified Current 3/8"lead length at Ta =75°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 Instantaneous Forward Voltage at 1.0A	Vf	1.1 1.2						V	
Maximum full load reverse current full cycle Average at 75°C	Ir(av)	30.0							μΑ
Maximum DC Reverse Current Ta =25°C	lr 5.0							μΑ	
at rated DC blocking voltage Ta =125°C	50.0							μΑ	
Typical Reverse Recovery Time (Note 1)	Trr	2.0							μS
Typical Junction Capacitance (Note 2)	Cj	8.0 7.0						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

Rev.A4 www.gulfsemi.com

RATINGS AND CHARACTERISTIC CURVES GP10A THRU GP10M

