GP08A THRU GP08J

SINTERED GLASS JUNCTION PLASTIC RECTIFIER

VOLTAGE:50 TO 600V

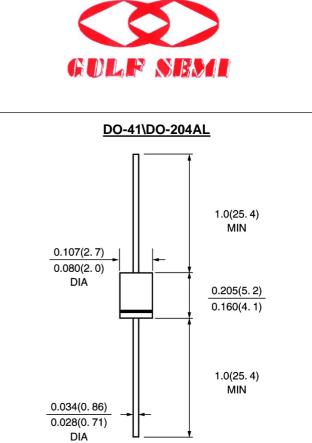
CURRENT: 0.8A

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<0.1µA

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



Dimensions in inches and (millimeters)

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%)

		GP	GP	GP	GP	GP				
	SYMBOL	08A	08B	08D	08G	08J	Units			
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	V			
Maximum RMS Voltage	Vrms	35	70	140	280	420	V			
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	V			
Maximum Average Forward Rectified Current 3/8"lead length at Ta =45°C	lf(av)			0.8			A			
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	25.0					A			
Maximum Instantaneous Forward Voltage at 1.0A	Vf	1.3					V			
Maximum full load reverse current full cycle Average at 55°C	Ir(av)			30.0			μA			
Maximum DC Reverse Current Ta =25°C	Ir	5.0					μΑ			
at rated DC blocking voltage Ta =125°C	50.0						μA			
Typical Reverse Recovery Time (Note 1)	Trr	2.0					μS			
Typical Junction Capacitance (Note 2)	Cj	8.0					pF			
Typical Thermal Resistance (Note 3)	R(ja)	55.0					°C /W			
Storage and Operating Junction Temperature	Tstg, Tj		-	65 to +17	5		°C			
Note:										

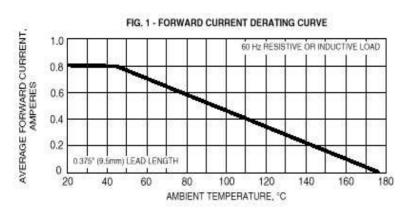
Note:

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

RATINGS AND CHARACTERISTIC CURVES GP08A THRU GP08J



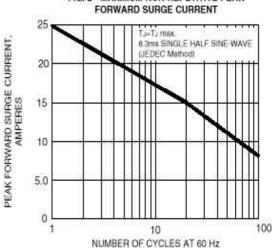


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK

FORWARD CHARACTERISTICS 20 TJ=25°C PULSE WIDTH=300µ8 10 INSTANTANEOUS FORWARD CURRENT, AMPERES % DUTY CYCLE 1 0.1 0 0.4 0.6 0.8 1.0 1.2 1.4 INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG. 3 - TYPICAL INSTANTANEOUS

FIG. 5 - TYPICAL JUNCTION CAPACITANCE

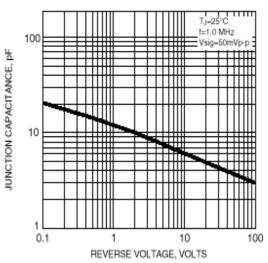
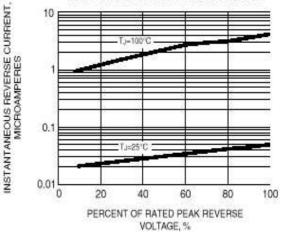
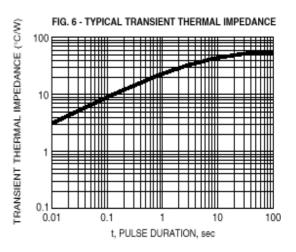


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS





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