GP15A THRU GP15M

SINTERED GLASS JUNCTION PLASTIC RECTIFIER

VOLTAGE:50 TO 1000V CURRENT: 1.5A



FEATURE

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

MECHANICAL DATA

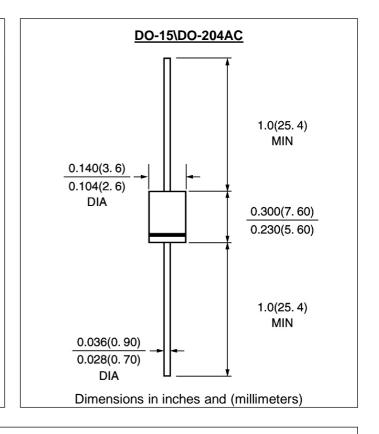
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

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

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any



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%)

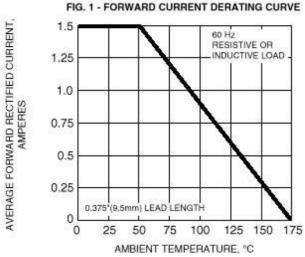
	SYMBOL	GP 15A	GP 15B	GP 15D	GP 15G	GP 15J	GP 15K	GP 15M	units
			-						
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.5							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50.0							А
Maximum Instantaneous Forward Voltage at 1.5A	Vf	1.1							V
Maximum full load reverse current full cycle Average at $55^{\circ}C$	Ir(av)	100.0							μΑ
Maximum DC Reverse Current Ta =25°C	la	5.0							μΑ
at rated DC blocking voltage Ta =150°C	Ir 200.0							μA	
Typical Reverse Recovery Time (Note 1)	Trr	2.0							μS
Typical Junction Capacitance (Note 2)	Cj	15							pF
Typical Thermal Resistance (Note 3)	R(ja)	45.0							°C /W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175							°C
NI-1-	•								

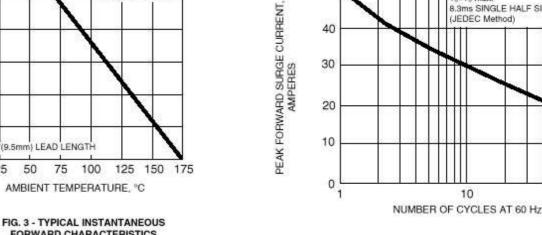
Note:

- 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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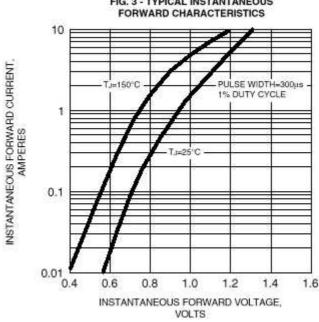
RATINGS AND CHARACTERISTIC CURVES GP15A THRU GP15M





50

40



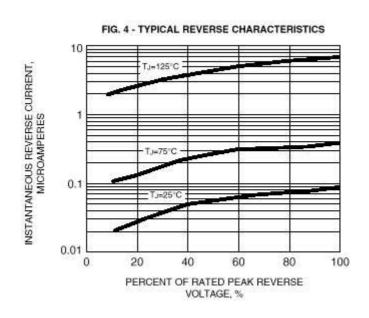


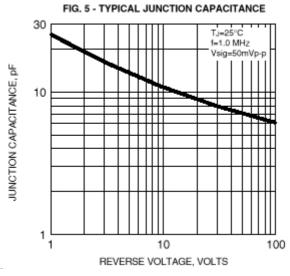
FIG. 2 - MAXIMUM NON-REPETITIVE PEAK

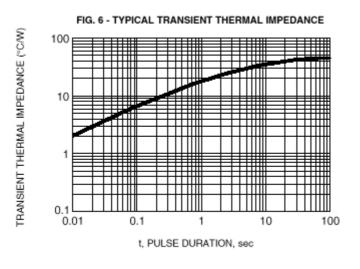
FORWARD SURGE CURRENT

(JEDEC Method)

T_j=T_j max. 8.3ms SINGLE HALF SINE-WAVE

100





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