

GPP10 SERIES

GLASS PASSIVATED RECTIFIER



**CHENG-YI
ELECTRONIC**



FEATURE

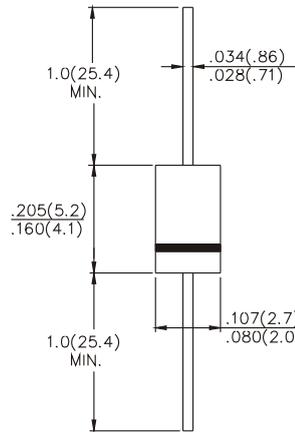
- Glass passivated junction
- Low forward voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

MECHANICAL DATA

Case: Mold plastic use UL 94V-0 recognized
flame retardant epoxy
Terminals: Axial leads, solderable per
MIL-STD-202, method 208
Polarity: Color band denotes cathode
Mounting Position: Any

VOLTAGE RANGE 50 TO 1000 Volts
CURRENT 1.0 Amperes

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	GPP10A	GPP10B	GPP10D	GPP10G	GPP10J	GPP10K	GPP10M	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current, .375", (9.5mm) Lead Length at $T_A = 55^\circ\text{C}$	1.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave	50							A
Maximum Forward Voltage at 1.0A Peak	1.0					1.1		V
Maximum Reverse Current, Rated DC Blocking Voltage	5.0							μA
Maximum DC Reverse Current, Full Cycle Average, .375", (9.5mm) Lead Length at $T_A = 55^\circ\text{C}$	30							μA
Typical Junction Capacitance (Note 1)	15							pF
Typical Reverse Recovery Time (Note 2)	2							μS
Operating and Storage Temperature Range T_A	-65 to +175							$^\circ\text{C}$

Notes : 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Vdc
2. Measured with $I_F = .5\text{A}$, $I_R = 1\text{A}$, $I_{rr} = .25\text{A}$

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RATING AND CHARACTERISTICS CURVES GPP10 SERIES

Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

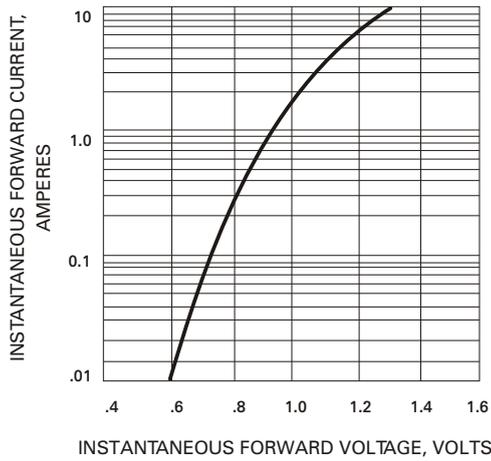


Fig. 2 - PEAK FORWARD SURGE CURRENT

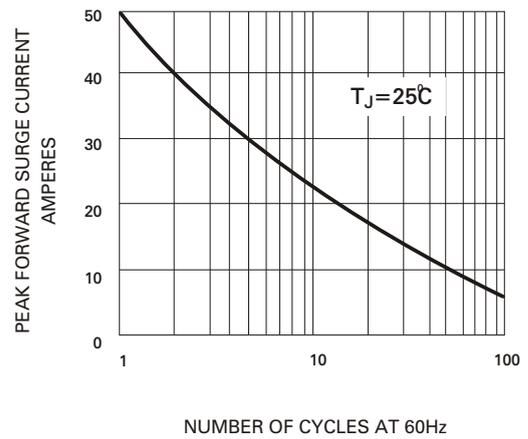


Fig. 3 - FORWARD CURRENT DERATING CURVE

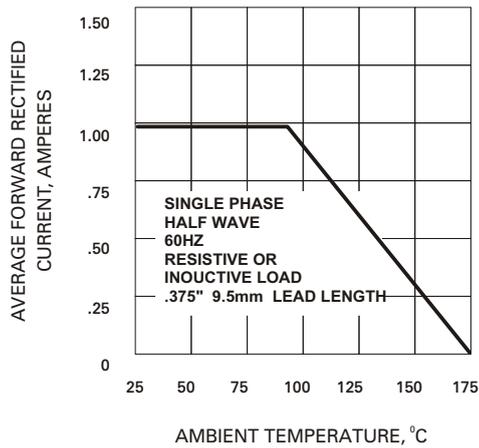


Fig. 4 - TYPICAL JUNCTION CAPACITANCE

