

GPP6J

GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 600V

CURRENT: 6.0A



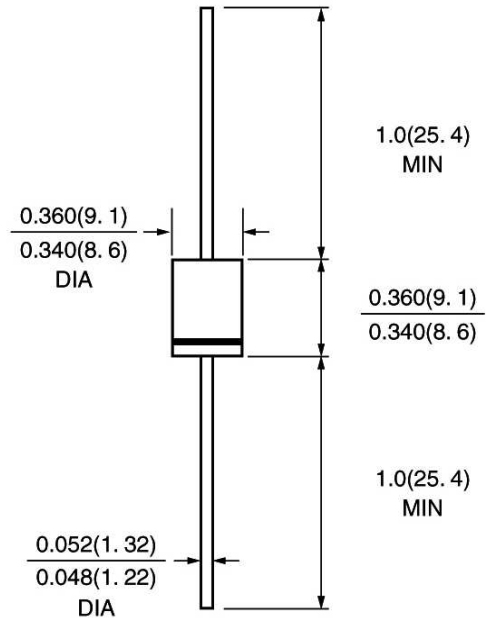
FEATURE

High current capability
Low forward voltage drop
High surge current capability
Glass Passivated chip

MECHANICAL DATA

Cases: Molded plastic
Epoxy: UL 94V-0 rate flame retardant
Lead: Axial leads, solderable per MIL-STD-
Lead: 202, Method 208 guaranteed
Polarity: color band denotes cathode
High temperature soldering guaranteed:
250°C/10 seconds/.375", (9.5mm) lead
lengths at 5 lbs., (2.3kg) tension
Mounting position: any
Weight: 2.0 grams(about)

P600IR-6



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%)

	SYMBOL	GPP6J	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	600	V
Maximum RMS Voltage	V _{rms}	420	V
Maximum DC blocking Voltage	V _{dc}	600	V
Maximum Average Forward Rectified Current 3/8" lead length at T _a =50°C	I _{f(av)}	6.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	300.0	A
Maximum Instantaneous Forward Voltage at rated forward current @6.0A	V _f	1.0	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	10.0 100.0	μA μA
Typical Junction Capacitance (Note 1)	C _j	100	pF
Storage and Operating Junction Temperature	T _{stg} , T _j	-55 to +150	°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc

RATINGS AND CHARACTERISTIC CURVES GPP6J

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

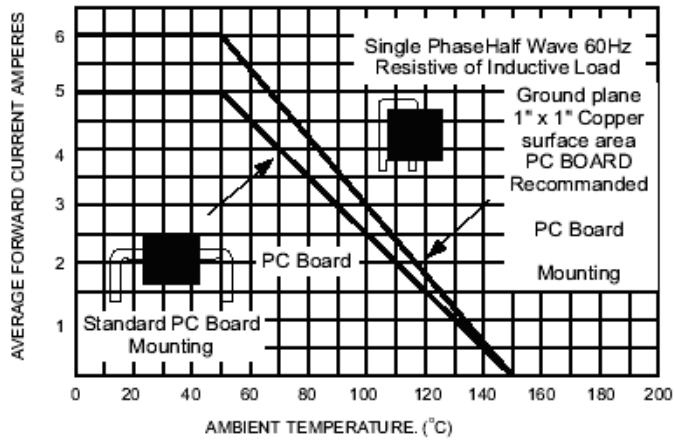


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

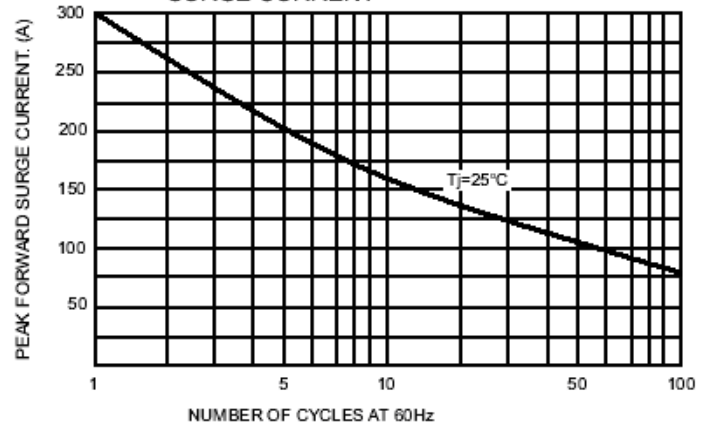


FIG.3- TYPICAL FORWARD CHARACTERISTICS

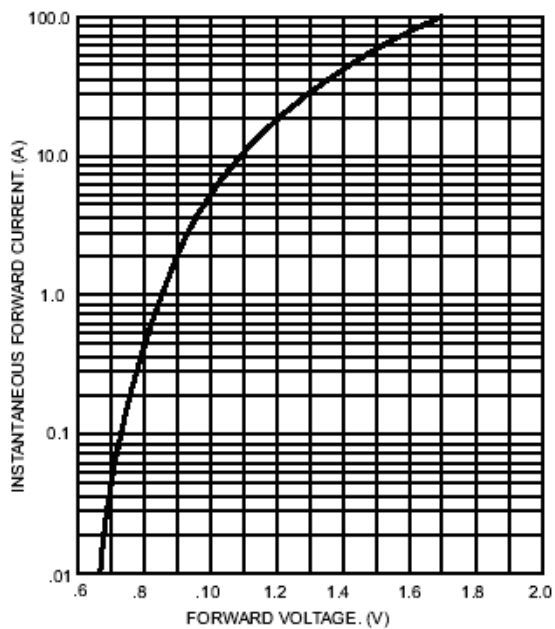


FIG.4- TYPICAL JUNCTION CAPACITANCE

