



# TAYCHIPST GLASS PASSIVATED RECTIFIER

**GPP15A THRU GPP15M**

**50V-1000V 1.5A**

## FEATURES

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

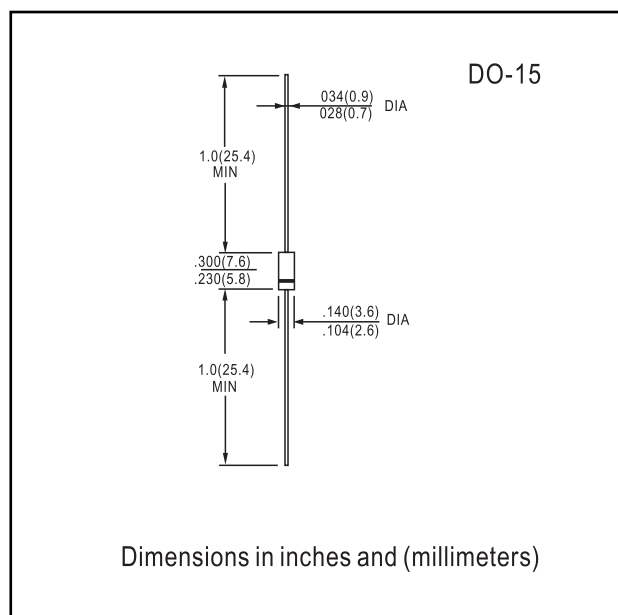
## MECHANICAL DATA

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



## 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%.

	GPP15A	GPP15B	GPP15D	GPP15G	GPP15J	GPP15K	GPP15M	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 $T_A = 55^\circ\text{C}$	1.5							A
Peak Forward Surge Current 8.3 ms single half sine-wave	60							A
Maximum Forward Voltage at 1.5A Peak	1.0					1.1		V
Maximum Reverse Current, Rated DC Blocking Voltage	5.0							$\mu\text{A}$
Maximum DC Reverse Current, Full Cycle Average, .375", (9.5mm) Lead Length at $T_A = 55^\circ\text{C}$	30							$\mu\text{A}$
Typical Junction Capacitance (Note 1)	25							pF
Typical Reverse Recovery Time (Note 2)	2							$\mu\text{S}$
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  $I_F = .5\text{A}$ ,  $I_R = 1\text{A}$ ,  $I_{rr} = .25\text{A}$

**RATINGS AND CHARACTERISTIC CURVES GPP15A THRU GPP15M**

Fig. 1 TYPICAL FORWARD CHARACTERISTICS

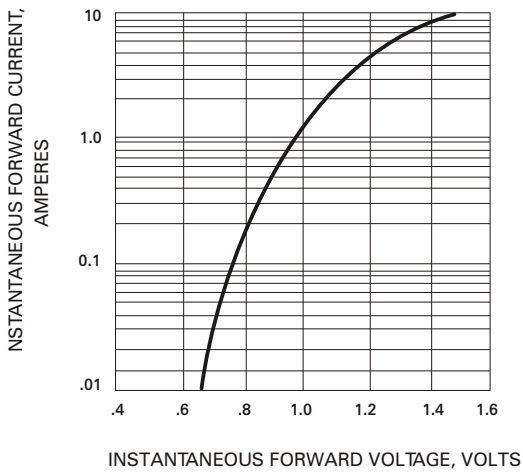


Fig. 2 PEAK FORWARD SURGE CURRENT

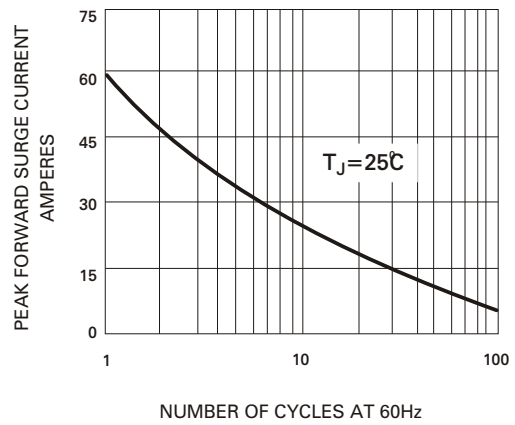


Fig. 3 FORWARD CURRENT DERATING CURVE

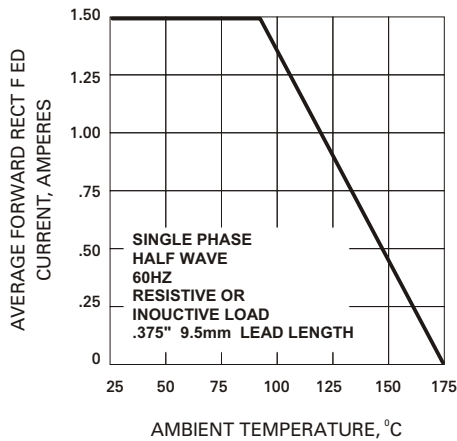


Fig. 4 TYPICAL JUNCTION CAPACITANCE

