



TAYCHIPST Glass Passivated Junction Plastic Rectifiers

GPP60A THRU GPP60G

50V-1000V 2.0A

FEATURES

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Glass passivated junction
- Capable of meeting environmental standards of MIL-S-19500
- 6.0 Ampere operation at TA=55°C with no thermal runaway
- Typical IR less than 0.2μA
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

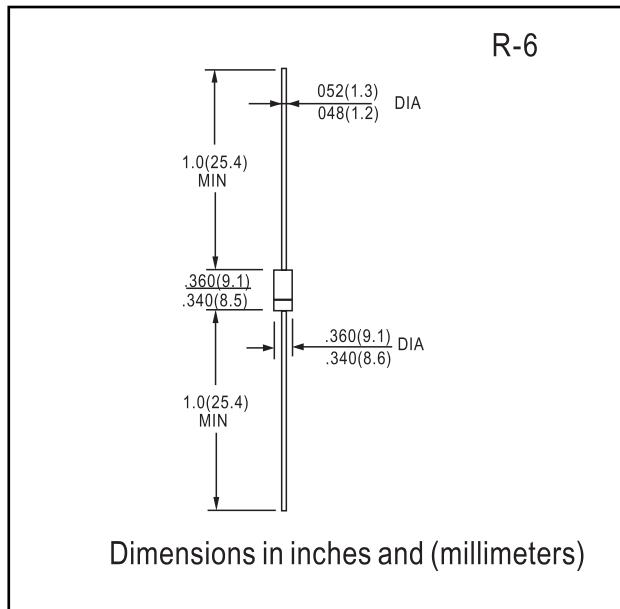
Case: P600, molded plastic over glass passivated chip

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.07 ounce, 2.0 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symb.	GPP60A	GPP60B	GPP60D	GPP60G	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA = 55°C	I _{F(AV)}	6.0				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	500				A
Typical thermal resistance ⁽¹⁾	R _{θJA} R _{θJL}	20 4				°C/W
Operating junction and storage temperature range	T _{J,TSTG}	−55 to +175				°C

Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symb.	GPP60A	GPP60B	GPP60D	GPP60G	Unit
Maximum instantaneous forward voltage at 6.0A	V _F	1.1				V
Maximum reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	I _R	5.0 100				μA
Maximum reverse recovery time I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A	t _{rr}	5.5				μs
Typical junction capacitance at 4.0V, 1MHz	C _J	110				pF

Note: (1) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted



TAYCHIPST

Glass Passivated Junction Plastic Rectifiers

GPP60A THRU GPP60G

50V-1000V 2.0A

RATINGS AND CHARACTERISTIC CURVES GPP60A THRU GPP60G

Fig. 1 – Forward Current Derating Curve

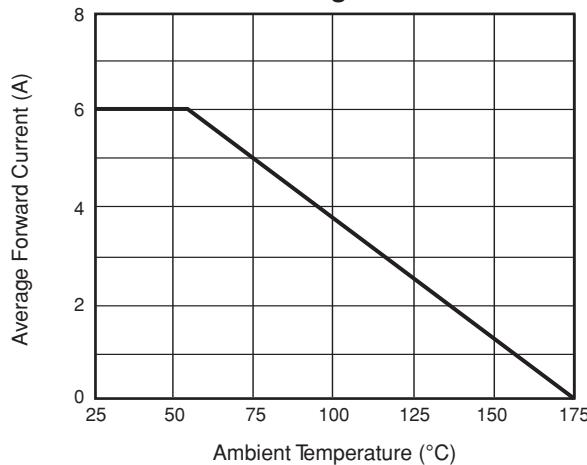


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

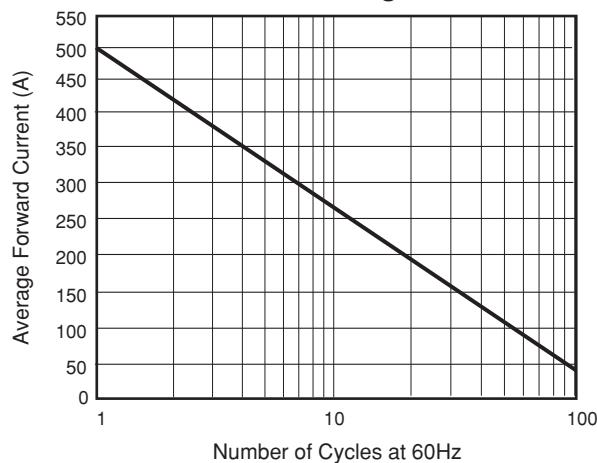


Fig. 3 – Typical Instantaneous Forward Characteristics

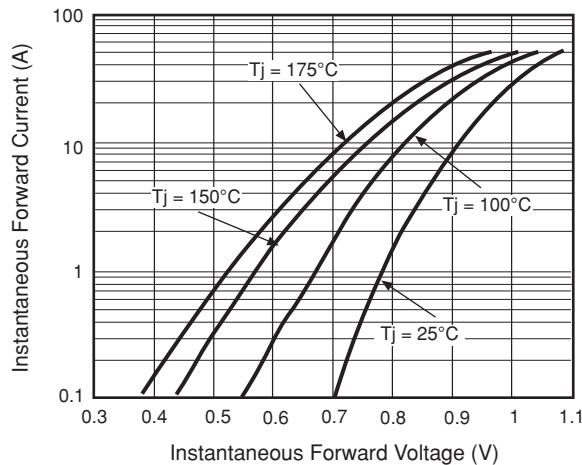


Fig. 4 – Typical Reverse Characteristics

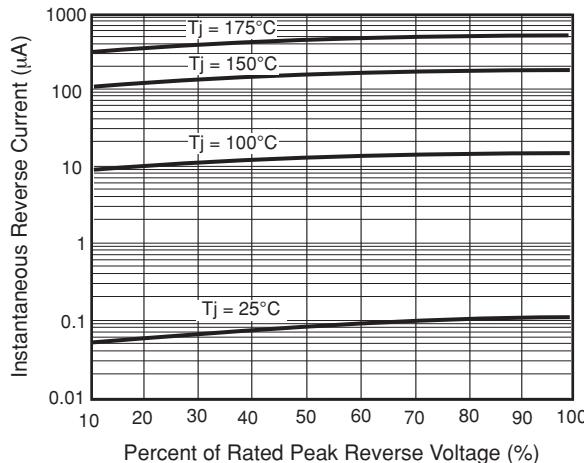


Fig. 5 – Typical Junction Capacitance

