

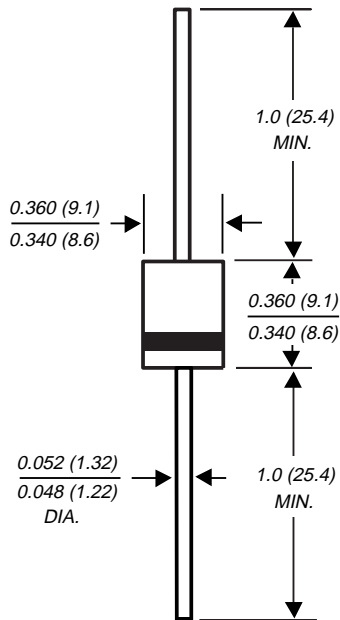
High Current Plastic Rectifier

Reverse Voltage 50 to 800 V

Forward Current 6.0 A



Case Style P600



Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- High forward current capability
- Diffused junction
- Construction utilizes void-free molded plastic technique
- High surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

Case: Void-free molded plastic body

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

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.07 ounce, 2.1 grams

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GI750	GI751	GI752	GI754	GI756	GI758	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	V
Maximum non-repetitive peak reverse voltage	VRSM	60	120	240	480	720	1200	V
Maximum average forward rectified current at TA=60°C, P.C.B. mounting (FIG. 1) TL=60°C, 0.125" (3.18mm) lead length (FIG. 2)	IF(AV)	6.0 22						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	400						A
Typical thermal resistance (NOTE 1)	RθJA RθJL	20 4.0						°C/W
Operating junction and storage temperature range	TJ, TSTG	-50 to +150						°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GI750	GI751	GI752	GI754	GI756	GI758	UNITS	
Maximum instantaneous forward voltage at: 6.0A 100A	VF	0.90 1.25						0.95 1.30	V
Maximum DC reverse current at rated DC blocking voltage TA=25°C TA=100°C	IR	5.0 1.0						μA mA	
Typical reverse recovery time at IF=0.5A, IR=1.0A, IRR=0.25A	trr	2.5						μs	
Typical junction capacitance at 4.0V, 1MHz	CJ	150						pF	

NOTES:

(1) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted with 1.1" x 1.1" (30 x 30mm) copper pads

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

