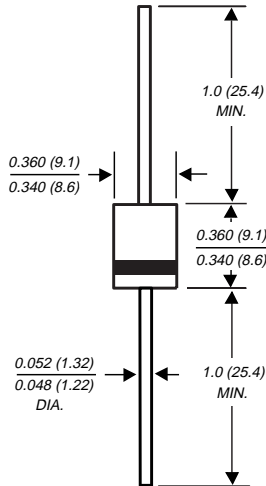


# GI750 THRU GI758

## HIGH CURRENT PLASTIC RECTIFIER

Reverse Voltage - 50 to 800 Volts    Forward Current - 6.0 Amperes

### Case style P600



Dimensions are in inches and (millimeters)

### FEATURES

- ◆ Plastic package has Underwriters Laboratory 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 AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GI750	GI751	GI752	GI754	GI756	GI758	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	Volts
Maximum non-repetitive peak reverse voltage	V <sub>RSM</sub>	60	120	240	480	720	1200	Volts
Maximum average forward rectified current at T <sub>A</sub> =60°C, P.C.B. mounting (FIG. 1) T <sub>L</sub> =60°C, 0.125" (3.18mm) lead length (FIG. 2)	I <sub>(AV)</sub>	6.0 22.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	400.0						Amps
Maximum instantaneous forward voltage at 6.0A 100A	V <sub>F</sub>					0.90 1.25	0.95 1.30	Volts
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>					5.0 1.0		μA mA
Typical junction capacitance (NOTE 1)	C <sub>J</sub>					150.0		pF
Typical reverse recovery time (NOTE 2)	t <sub>rr</sub>					2.5		μs
Typical thermal resistance (NOTE 3)	R <sub>θJA</sub> R <sub>θJL</sub>					20.0 4.0		°C/W
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>					-50 to +150		°C

#### NOTES:

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

(2) Reverse recovery test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>rr</sub>=0.25A

(3) 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 G1750 THRU G1758

