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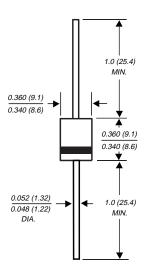
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GI820 THRU GI828

FAST SWITCHING PLASTIC RECTIFIER

Reverse Voltage - 50 to 800 Volts Forward Current - 5.0 Amperes

Case Style P600



Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High surge current capability
- ♦ High forward current operation
- Fast switching for high efficiency
- ♦ Construction utilizes void-free molded plastic technique
- Uniform molded body
- 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, 2.1grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	GI820	GI821	GI822	GI824	GI826	GI828	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	Volts
Maximum non-repetitive peak reverse voltage	VRSM	75	150	250	450	650	880	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at Ta=55°C	I _(AV)			5.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	300.0						Amps
Maximum instantaneous forward voltage at 5.0A TJ= 25°C at 15.7A TJ=150°C	VF	1.10 1.05						Volts
Maximum reverse current TA= 25°C at rated DC blocking voltage TA=100°C	IR	10.0 1.0						μA mA
Typical junction capacitance (NOTE 1)	CJ	300.0						pF
Maximum reverse recovery time (NOTE 2)	t _{rr}	200.0						ns
Maximum reverse recovery current (NOTE 2)	I _{RM(REC)}	2.0						Amps
Typical thermal resistance (NOTE 3)	R⊝JA	10.0						°C/W
Operating junction and storage temperature range	TJ, TSTG	-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==1.0A, VR=30V, di/dt=50A/µs, and Irr=10% IRM for measurement of trr
- (3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, with both leads equally to heat sink



RATINGS AND CHARACTERISTIC CURVES GI820 THRU GI828

