

GR301G THRU GR307G

GLASS PASSIVATED RECTIFIERS

FEATURES:

- High temperature bonded construction
- High surge current capability
- No thermal runaway at 1 Amp. Current $T_a=75^\circ\text{C}$
- High temperature soldering guaranteed : $250^\circ\text{C}/10$ seconds, 0.375" lead length, 5lbs.(2.3kg) tension

MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

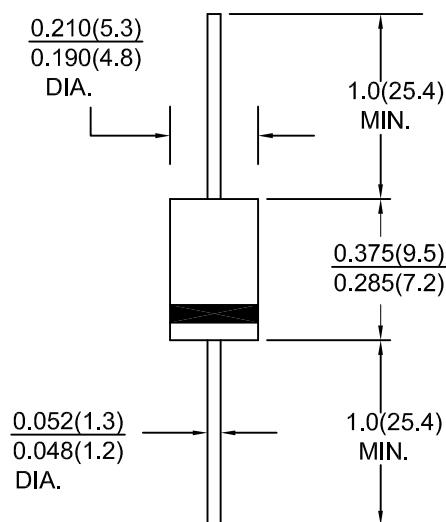
Terminals : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 1.2 grams, 0.045 ounce

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	GR 301G	GR 302G	GR 303G	GR 304G	GR 305G	GR 306G	GR 307G	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current .375" lead length at $T_a=75^\circ\text{C}$	$I_{(AV)}$	3.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	125.0							Amps
Maximum instantaneous forward voltage drop at 3.0 A	V_F	1.1		1.0				Volts	
Maximum DC reverse current at rated DC blocking voltage	I_R				5.0 100.0				μA
Maximum full load reverse current, full cycle average 0.375" lead length at $T_a=55^\circ\text{C}$	$I_{R(AV)}$	100.0							μA
Typical thermal resistance	R_{th-JA} R_{th-JL}					20 10		$^\circ\text{C/W}$	
Typical junction capacitance	C_j	15.0							pF
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +150							$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES GR301G THRU GR307G

