

GR201G THRU GR207G

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

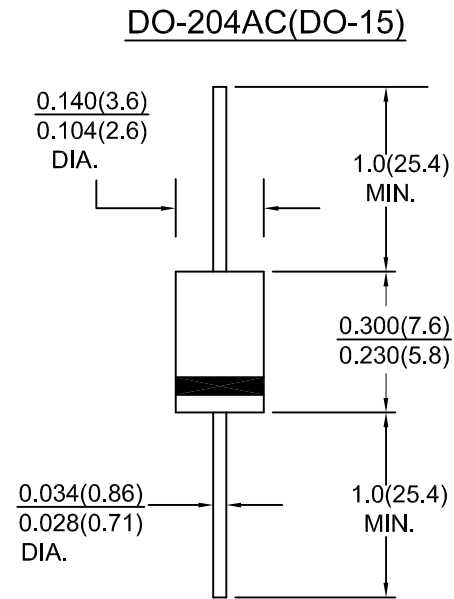
Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

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

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 0.4 grams, 0.015 ounce



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 201G	GR 202G	GR 203G	GR 204G	GR 205G	GR 206G	GR 207G	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 $T_a=75^\circ\text{C}$	$I_{(AV)}$	2.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	65.0							Amps
Maximum instantaneous forward drop voltage at 2.0 A	V_F	1.1		1.0				Volts	
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_a=25^\circ\text{C}$		5.0				μA	
		$T_a=150^\circ\text{C}$		100.0					
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}	25.5				10.0			$^\circ\text{C/W}$
Typical junction capacitance	C_j	40.0							pF
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +150							$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES GR201G THRU GR207G

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

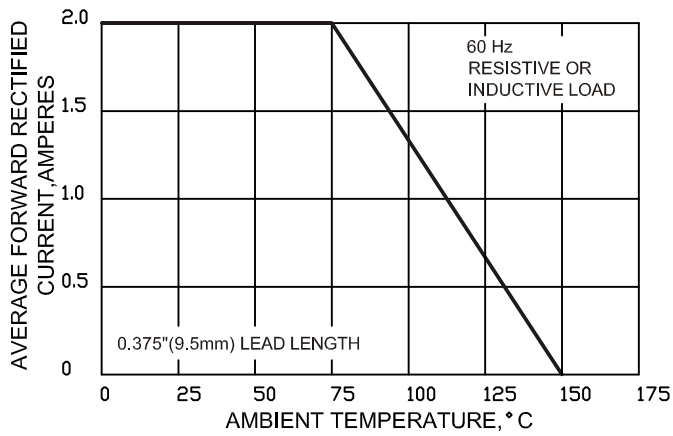


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

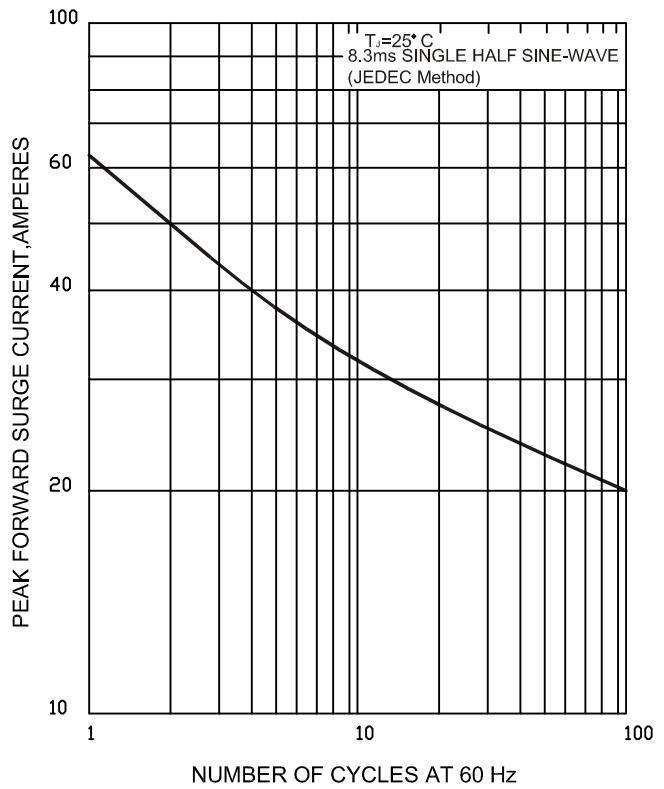


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

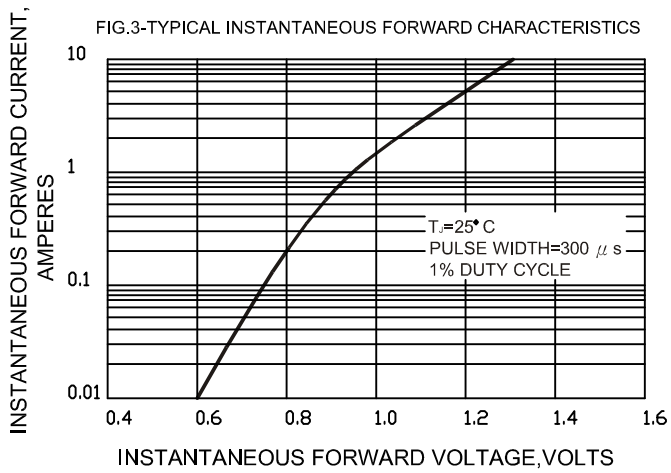


FIG.4-TYPICAL REVERSE CHARACTERISTICS

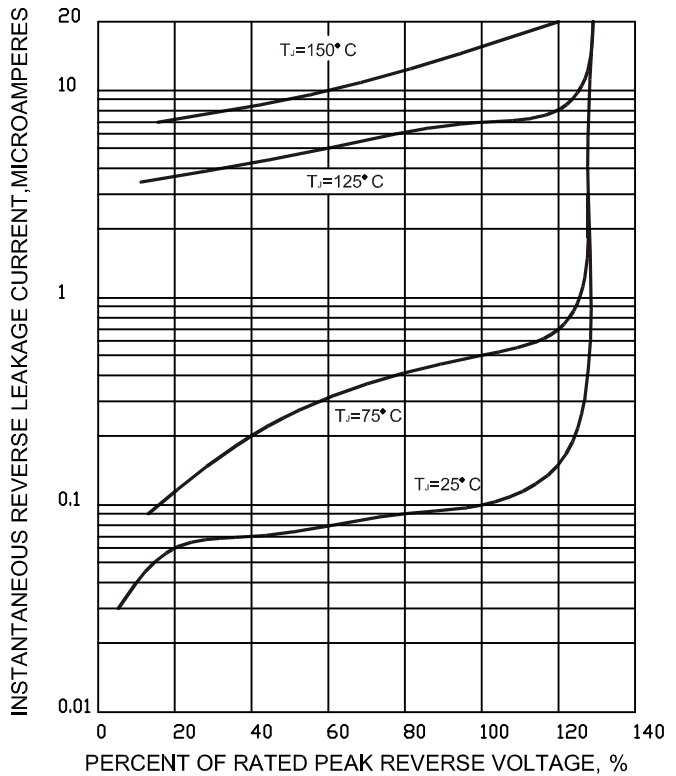


FIG.5-TYPICAL JUNCTION CAPACITANCE

