



FAST RECOVERY GLASS PASSIVATED RECTIFIERS

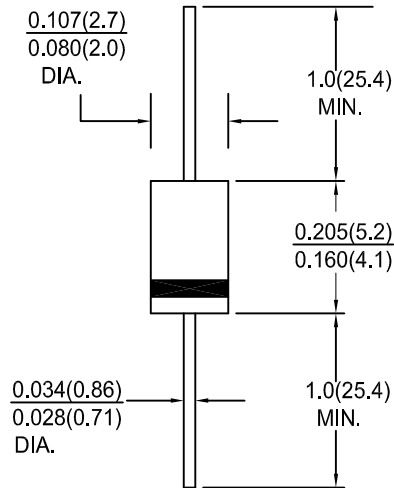
FEATURES:

- High temperature bonded construction
- Fast switching for use in high frequency circuit
- No thermal runaway at 1 Amp. Current Ta=55°C
- High temperature soldering guaranteed : 250 °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
 Polarity : Color band on body denotes cathode end
 Mounting Position : Any
 Weight : 0.33 grams, 0.012 ounce

DO-204AL(DO-41)



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	FR 101G	FR 102G	FR 103G	FR 104G	FR 105G	FR 106G	FR 107G	Units
Maximum recurrent peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current .375 lead length at Ta=55°C	Io	1.0							Amps
Peak forward surge current ,8,3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	30.0							Amps
Maximum instantaneous forward voltage drop at 1.0 A	VF	1.3							Volts
Maximum DC reverse current at rated DC blocking voltage Ta=25°C Ta=150°C	IR	5.0 200.0							μ A
Typical reverse recovery time (note 1)	trr	150	150	150	150	250	250	500	nS
Typical thermal resistance	Rth-JA	55							°C/W
Typical junction capacitance (note 2)	Cj	15.0							pF
Operating junction and storage temperature range	Tj, Tstg	-65 to +150							°C

NOTES:1. Reverse recovery test condition; I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
 2. Measured at 1MHz and Applied reverse voltage of 4.0V.DC



RATINGS AND CHARACTERISTIC CURVES

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

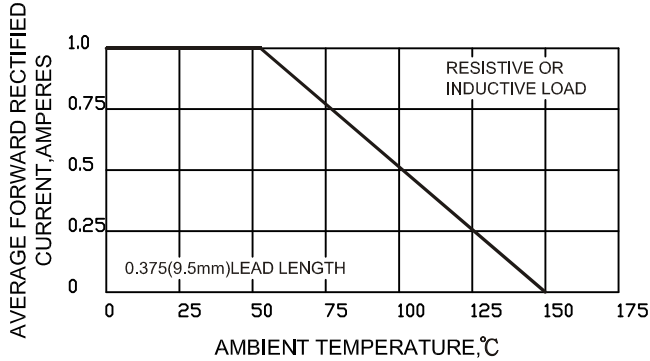


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

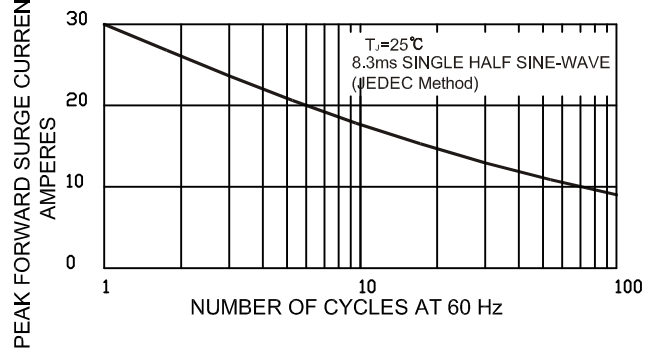


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

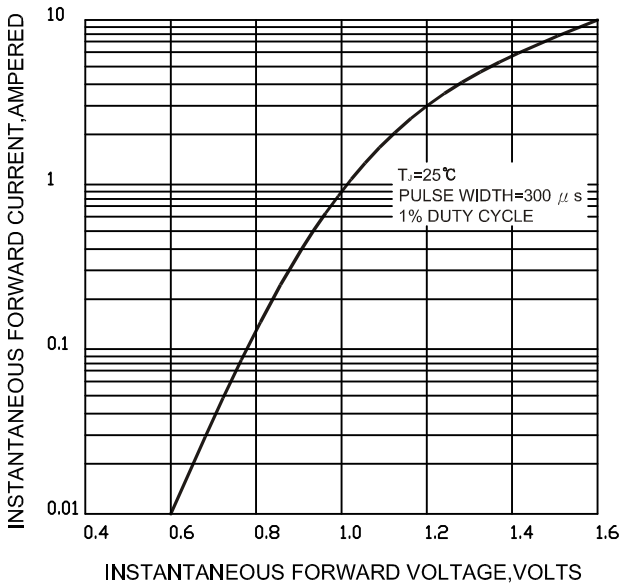


FIG.4-TYPICAL REVERSE CHARACTERISTICS

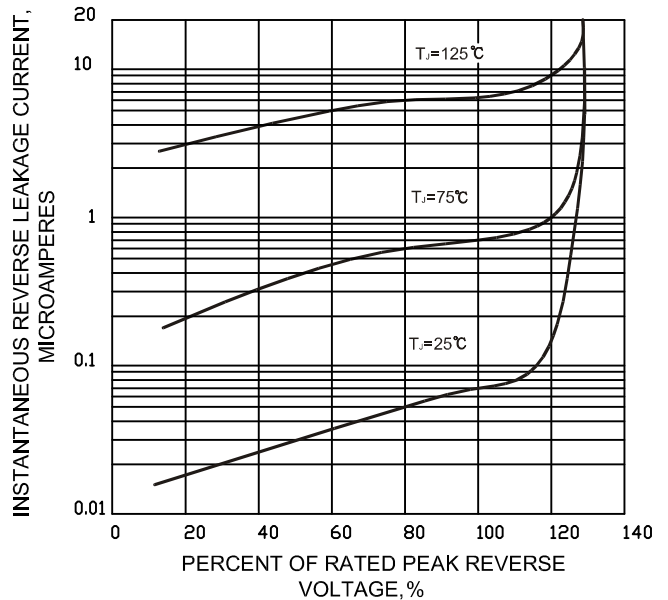
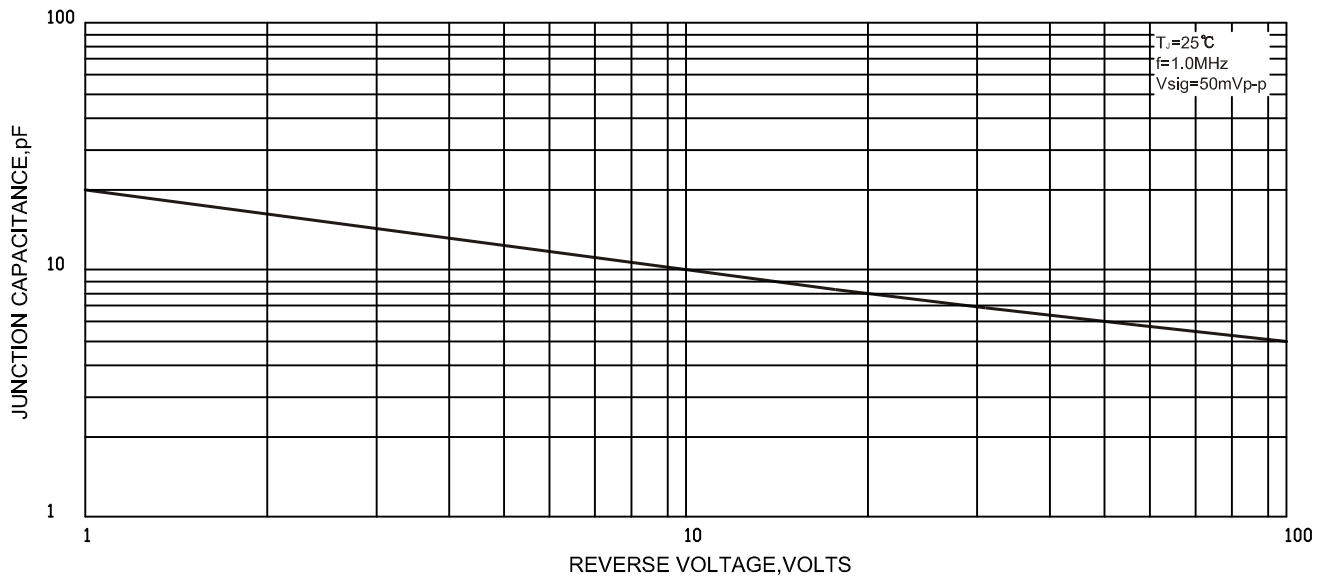


FIG.5-TYPICAL JUNCTION CAPACITANCE





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