FR101G THRU FR107G

FAST RECOVERY GLASS PASSIVATED RECTIFIER VOLTAGE:50 TO 1000V CURRENT:1.0A

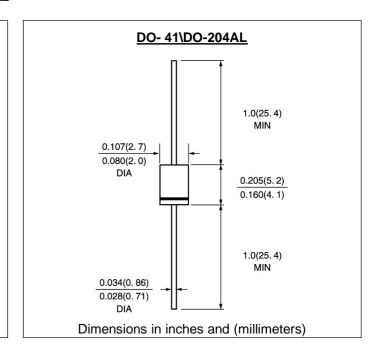


FEATURE

Molded case feature for auto insertion High current capability Low leakage current High surge capability High temperature soldering guaranteed Fast switching for high efficiency Glass passivated junction

MECHANICAL DATA

Terminal:Plated axial leads solderable per
MIL-STD 202E, method 208C
Case:Molded with UL-94 Class V-0 recognized Flame
Retardant Epoxy
Polarity:color band denotes cathode
Mounting position:any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	FR1	FR1	FR1	FR1	FR1	FR1	FR1	units
		01G	02G	03G	04G	05G	06G	07G	
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =75°C	If(av)	1.0							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30.0							А
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.3							V
Maximum DC Reverse Current Ta =25°C		5.0						μΑ	
at rated DC blocking voltage Ta =100°C	lr	100.0						μA	
Maximum Reverse Recovery Time (Note 1)	Trr	150			250	500		nS	
Typical Junction Capacitance (Note 2)	Cj	15.0							pF
Typical Thermal Resistance (Note 3)	R(ja)	50.0							°C/W
Storage and Operating Junction Temperature	Tstg,Tj	-50 to +150							°C

Note:

- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 0.375"lead length, P.C. Board Mounted

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RATINGS AND CHARACTERISTIC CURVES FR101G THRU FR107G

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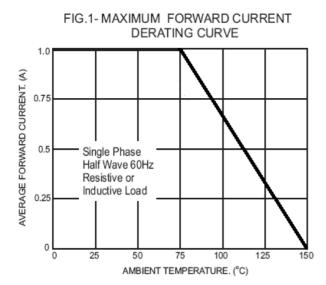




FIG.2- MAXIMUM NON-REPETITIVE

FORWARD SURGE CURRENT

8.3ms Single Half Sine Wave

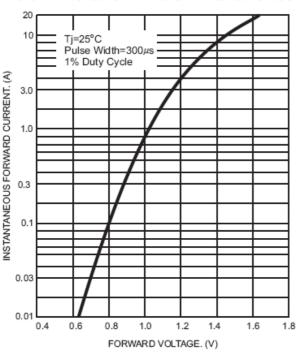
20

1 1 1111

100

60

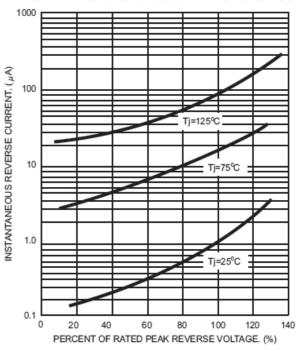
FIG.3- TYPICAL FORWARD CHARACTERISTICS





10

NUMBER OF CYCLES AT 60Hz



90 JUNCTION CAPACITANCE.(pF) 50 30 20 Ti=25°C 10

10 REVERSE VOLTAGE. (V)

FIG.5- TYPICAL JUNCTION CAPACITANCE

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