

FR201G THRU FR207G

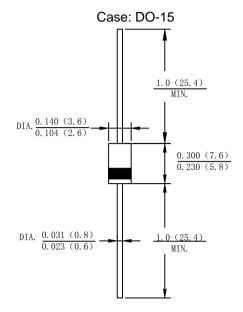
2.0 AMP Glass Fast Recovery Rectifiers

Features

- · Low forward voltage drop
- · High current capability
- · High reliability
- · High surge current capability

Mechanical Data

- · Case: Molded plastic DO-15
- Terminals: Axial leads solderable per MIL-STD-202, Method 208 guaranteed
- · Polarity: Color band dentes cathode end
- · Mounting Position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

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

For capacitive load derate current by 20%

- Consultation to the desire that the state of the state				_	_				
Type Number	SYMBOL	FR 201G	FR 202G	FR 203G	FR 204G	FR 205G	FR 206G	FR 207G	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Average Rectified Output Current (Note 1) @TL =100°C	I F(AV)	2.0							А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I FSM	50							Α
I ² t Rating for Fusing (t < 8.3ms)	l²t	10.375							A ² s
Forward Voltage @IF=2.0A	V _{FM}	1.3							V
Peak Reverse Current @T _A =25°C	5.0 I _R 100								uA
At Rated DC Blocking Voltage @T _A =125°C									
Maximum Reverse Recovery Time (Note2)	T _{RR}	150			250	50	00	nS	
Typical Junction Capacitance (Note 3)	Cj	10							pF
Typical Thermal Resistance Junction to Ambient	RθJA	65							°C/W
Operating Temperature Range	Tj	-65 to + 150							$^{\circ}$
Storage Temperature Range	Tstg	-65 to + 150							${\mathbb C}$

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

- 2.Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.
- 3. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

version:05 1 of 3



FR201G THRU FR207G

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Fig. 1 Forward Current Derating Curve

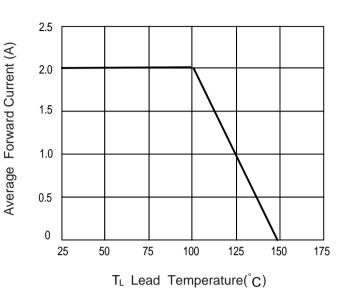


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

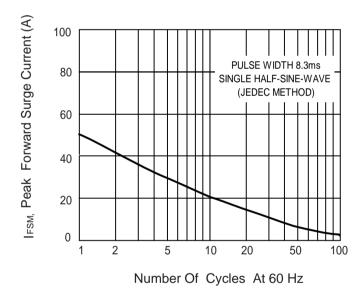


Fig. 2 Typ. Forward Characteristics

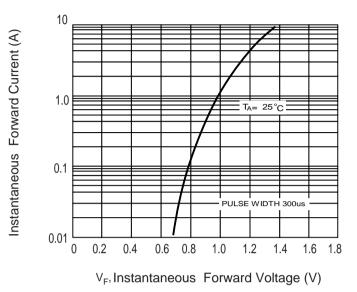
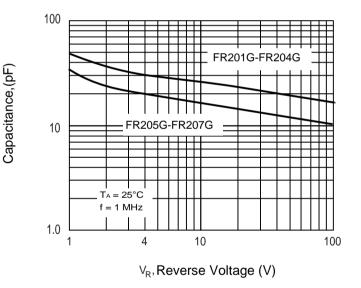


Fig.4 Typical Junction Capacitance



version:05 2 of 3



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version:05 3 of 3