

FR201GU THRU FR207GU

2.0 AMP Glass Fast Recovery Rectifiers

Features

· Low forward voltage drop

· High current capability

· High reliability

· High surge current capability

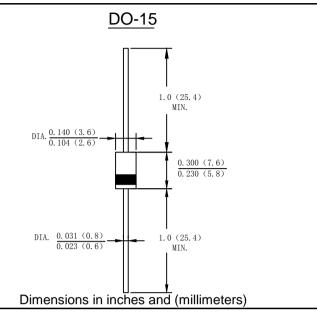
Mechanical Data

· 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



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

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

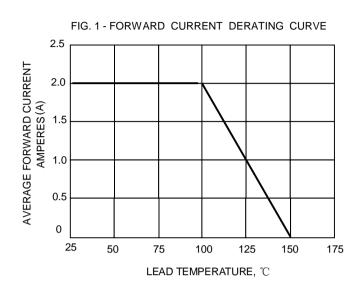
For capacitive load derate current by 20%

To supultivo load dorate carrolle by 2070									
Type Number	SYMBOL	FR 201GU	FR 202GU	FR 203GU	FR 204GU	FR 205GU	FR 206GU	FR 207GU	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current (Note 1) @TL =100 °C	I F(AV)	2.0							Α
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	lfsм	60							Α
I ² t Rating for Fusing (t < 8.3ms)	l ² t	14.94							A ² s
Forward Voltage @IF=2.0A	V _{FM}	1.3							V
Peak Reverse Current @T _A =25°C	5.0 IR 100								uA
At Rated DC Blocking Voltage @T _A =125°C									
Maximum Reverse Recovery Time (Note2)	T _{RR}	150 2			250	500		nS	
Typical Junction Capacitance (Note 3)	Cj	10							рF
Typical Thermal Resistance Junction to Ambient (Note 4)	R _{θJA}	65							°C/W
Operating Temperature Range	Tj	-65 to + 150							$^{\circ}$ C
Storage Temperature Range	Тѕтс	-65 to + 150							$^{\circ}$

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
- 4.P.C.B.mounted with 0.2×0.2" (5.0×5.0mm) copper pad areas

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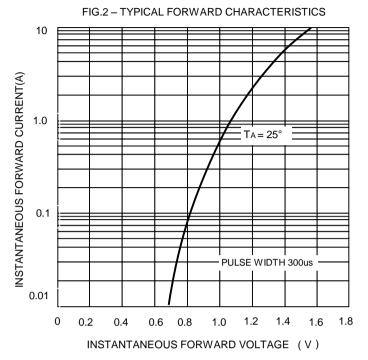
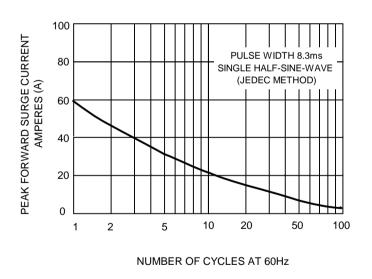
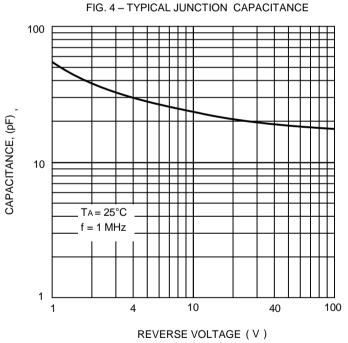


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT







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