



1.5AMPS Glass Passivated Fast Recovery Rectifiers



Features

- ♦ Glass passivated chip junction
- ♦ High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- ♦ High surge current capability
- ♦ Low power loss
- Green compound with suffix "G" on packing code & prefix "G" on datecode

.140 (3.6) .104 (2.6) DIA. .300 (7.6) .230 (5.8) .034 (.9) .028 (.7) DIA.

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: Color band denotes cathode end
- → High temperature soldering guaranteed: 260°C/10s /.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ♦ Weight: 0.40 grams

Dimensions in inches and (millimeters)

Marking Diagram



Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	Symbol	FR 151G	FR 152G	FR 153G	FR 154G	FR 155G	FR 156G	FR 157G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	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
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ T_A =55 $^{\circ}$ C	I _{F(AV)}	1.5							Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							Α
Maximum Instantaneous Forward Voltage (Note 1) @ 1.5A	V _F	1.3							V
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	I _R	5 150							uA uA
Maximum Reverse Recovery Time (Note 2)	Trr	150		250	500		nS		
Typical Junction Capacitance (Note 3)	Cj	20						pF	
Typical Thermal Resistance (Note 4)	$R_{\theta JA}$	60						°C/W	
Operating Temperature Range	TJ	- 65 to + 150						οС	
Storage Temperature Range	T _{STG}	- 65 to + 150						°С	

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Note 4: Mount on Cu-Pad Size 10mm x 10mm on PCB

Version:D10



RATINGS AND CHARACTERISTIC CURVES (FR151G THRU FR157G)















