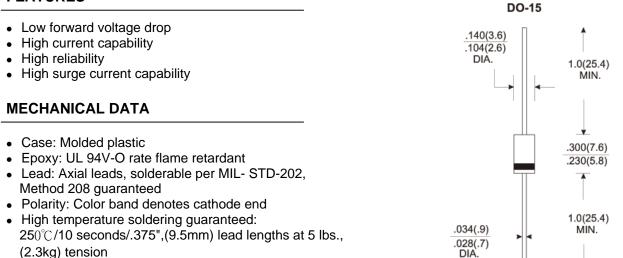


# 1.5 A Glass Passivated Fast Recovery Rectifiers FR151G THRU FR157G 50 to 1000 V 1.5 A

### FEATURES



• Weight: 0.4 gram

Dimensions in inches and (millimeters)

### **Maximum Ratings and Electrical Characteristics**

Type Number	Symbols	FR151G	FR152G	FR153G	FR154G	FR155G	FR156G	FR157G	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current. 375" (9.5mm) Lead Length @ $T_{\rm A}$ =55 $^\circ\!{\rm C}$	I(AV)	1.5							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	50							Amp
Maximum instantaneous Forward Voltage @1.5A	VF	1.3							Volts
Maximum Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=125^{\circ}C$	I <sub>R</sub>	5.0 100							uAmp
Maximum Reverse Recovery Time (Note 1)	TRR	150 250 500					00	nS	
Typical Junction Capacitance (Note2)	CJ	25							pF
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

Rating at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, Resistive or inductive load. For capacitive load, derate current by 20%

### NOTES:

1. Reverse Recovery Test Conditions: IF =0.5A, IR =1.0A, IRR =0.25A

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.



## RATINGS AND CHARACTERISTIC CURVES (FR151G THRU FR157G)

