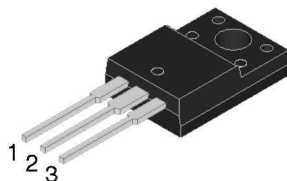
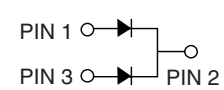


Isolated 5.0 Amp. Glass Passivated Fast Recovery Rectifiers

<p>ITO-220AB</p>  	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Voltage</td> <td style="text-align: center;">Current</td> </tr> <tr> <td style="text-align: center;">200 to 1000 V</td> <td style="text-align: center;">5.0 A</td> </tr> </table> <ul style="list-style-type: none"> Glass passivated chip junction. High efficiency, Low VF High current capability High reliability High surge current capability Low power loss <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case: ITO-220AB Molded plastic Epoxy: UL 94V-0 rate flame retardant Terminals: Pure tin plated, Lead free. Leads solderable per MIL-STD-202, Method 208 guaranteed Polarity: As marked High temperature soldering guaranteed: 260 °C/10 seconds/6.35mm from case. Mounting position: Any Weight: 2.24 grams Mounting torque: 5 in - 1bs. max. 	Voltage	Current	200 to 1000 V	5.0 A
Voltage	Current				
200 to 1000 V	5.0 A				

Absolute Maximum Ratings, according to IEC publication No. 134

		FRF 503G	FRF 504G	FRF 505G	FRF 506G	FRF 507G
V _{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	200	400	600	800	1000
V _{RMS}	Maximum RMS Voltage (V)	140	280	420	560	700
V _{DC}	Maximum DC Blocking Voltage (V)	200	400	600	800	1000
I _{F(AV)}	Maximum Average Forward Rectified Current See Fig.	5.0 A				
I _{FSM}	Peak Forward Surge Current 8.3 ms. single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	30 A				
T _{rr}	Maximum Reverse Recovery Time From I _F = 0.5 A; I _R = 1 A; I _{RR} = 0.25 A	150 nS		250 nS		500 nS
C _j	Typical Junction Capacitance at 1MHz and reverse voltage of 4V _{DC}	140 pF				
T _j , T _{stg}	Operating and Storage Temperature Range	- 65 to + 150 °C				

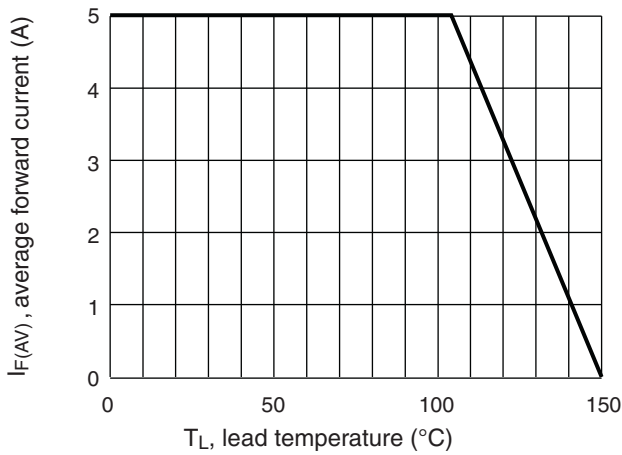
Electrical Characteristics

		FRF 503G	FRF 504G	FRF 505G	FRF 506G	FRF 507G
V _F	Max. Instantaneous Forward Voltage @ 2.5 A	1.5 V				
I _R	Maximum DC Reverse Current @ T _C = 25 °C at Rated DC Blocking Voltage @ T _C = 125 °C	5.0 μA 100 μA				
R _{thj-C}	Typical Thermal Resistance (Note 1)	4.0 °C/W				

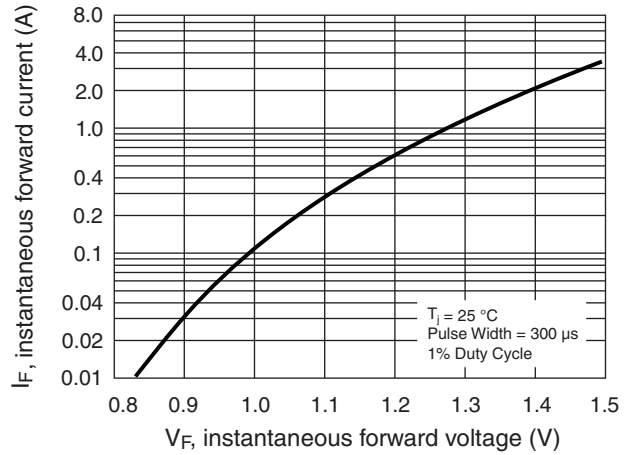
Note: 1. Thermal Resistance from Junction to case Per Leg Mounted on Heatsink
Size of 50.8 mm x 76.2 mm x 6.35 mm Al-Plate.

Rating And Characteristic Curves

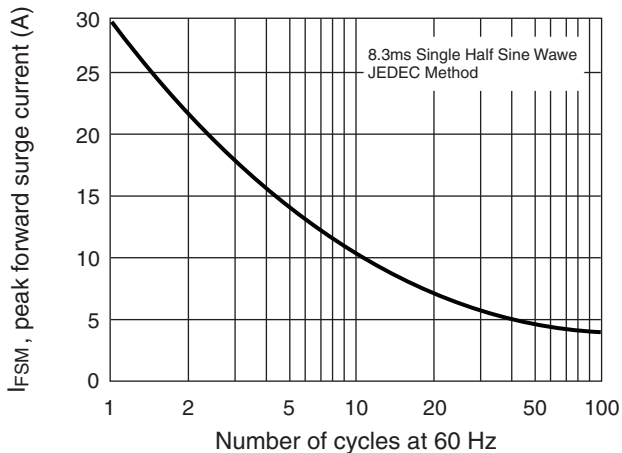
MAXIMUM FORWARD CURRENT DERATING CURVE



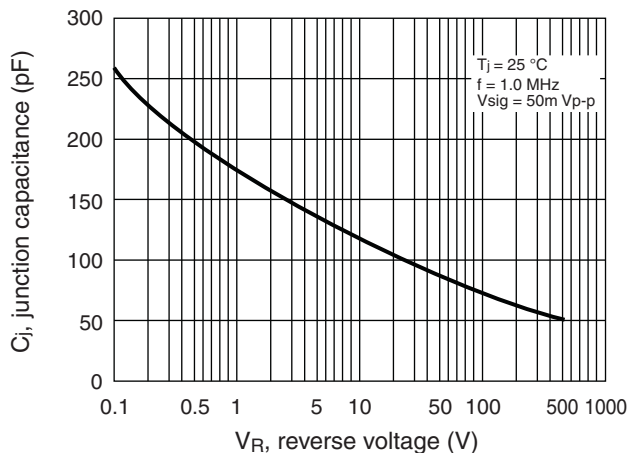
TYPICAL FORWARD CHARACTERISTICS PER LEG



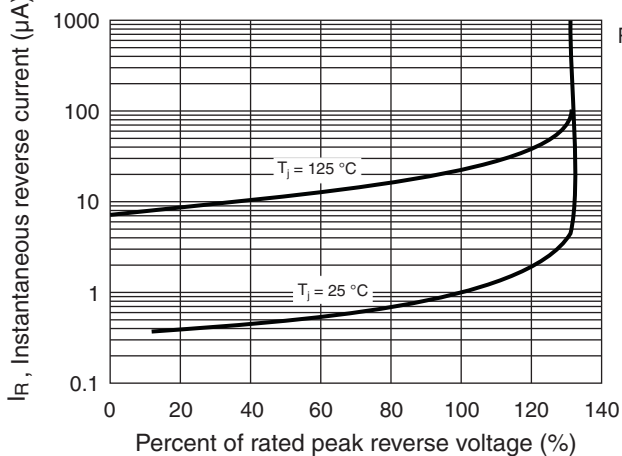
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG



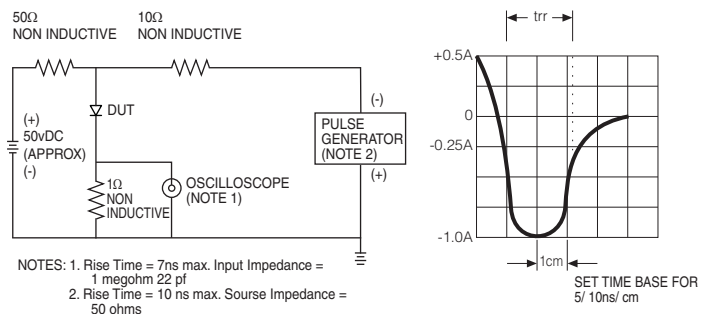
TYPICAL JUNCTION CAPACITANCE PER LEG



TYPICAL REVERSE CHARACTERISTICS PER LEG



REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

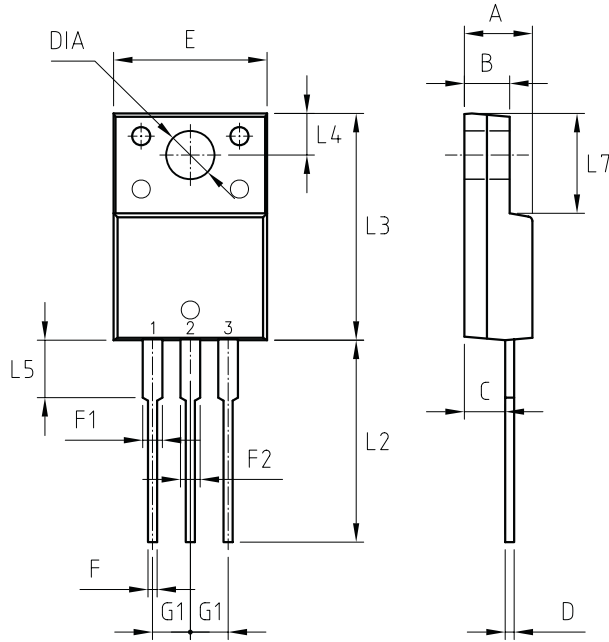


NOTES: 1. Rise Time = 7ns max. Input Impedance = 1 megohm 22 pf
2. Rise Time = 10 ns max. Source Impedance = 50 ohms

Isolated 5.0 Amp. Glass Passivated Fast Recovery Rectifiers

PACKAGE MECHANICAL DATA

ITO-220AB



REF.	DIMENSIONS		
	Millimeters		
	Min.	Nominal	Max.
A	-	-	4.7
B	-	-	3.16
C	2.5	-	2.8
D	-	-	0.76
E	-	-	10.3
F	-	-	0.9
F1	-	-	1.4
F2	-	-	1.8
G1	-	2.55	-
L2	13.2	-	13.8
L3	14.8	-	15.5
L4	2.55	-	2.85
L5	-	-	4.1
L7	6.3	-	6.9
DIA	3.0	-	3.4