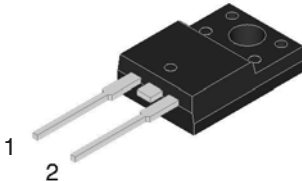
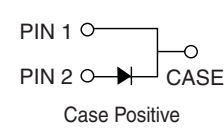


Isolated 16.0 Amp. Glass Passivated Fast Recovery Rectifiers

<h3 style="margin: 0;">ITO-220AC</h3>  <div style="text-align: center; margin-top: 10px;">  <p style="font-size: small;">Case Positive</p> </div>	<table style="width: 100%; border: none;"> <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;">16.0 A</td> </tr> </table>	Voltage	Current	200 to 1000 V	16.0 A
Voltage	Current				
200 to 1000 V	16.0 A				
<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-220AC 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. 				

Absolute Maximum Ratings, according to IEC publication No. 134

		FRAF 1603G	FRAF 1604G	FRAF 1605G	FRAF 1606G	FRAF 1607G
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 @ $T_c = 55\text{ °C}$	16 A				
I_{FSM}	Peak Forward Surge Current 8.3 ms. single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	250 A				
T_{rr}	Maximum Reverse Recovery Time From $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$	150 nS		250 nS	500 nS	
C_j	Typical Junction Capacitance at 1MHz and reverse voltage of 4VDC	70 pF				
T_j, T_{stg}	Operating and Storage Temperature Range	- 65 to + 150 °C				

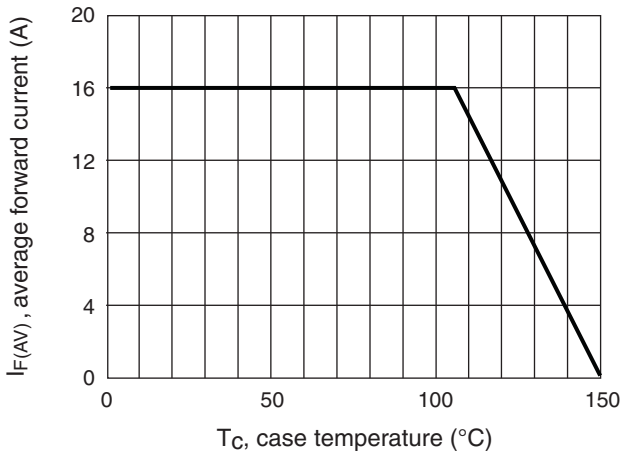
Electrical Characteristics

		FRAF 1603G	FRAF 1604G	FRAF 1605G	FRAF 1606G	FRAF 1607G
V_F	Max. Instantaneous Forward Voltage @16.0 A	1.3 V				
I_R	Maximum DC Reverse Current @ $T_c = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_c = 125\text{ °C}$	5.0 μA 100 μA				
R_{thj-C}	Typical Thermal Resistance (Note 1)	4.5 °C/W				

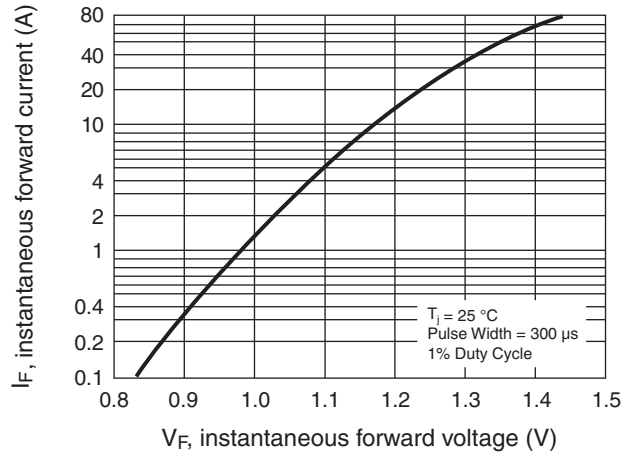
Note: 1. Thermal Resistance from Junction to case Per Leg Mounted on Heatsink
Size of 50.8 mm x 76.2 mm x 6.35 mm Al-Plate.

Rating And Characteristic Curves

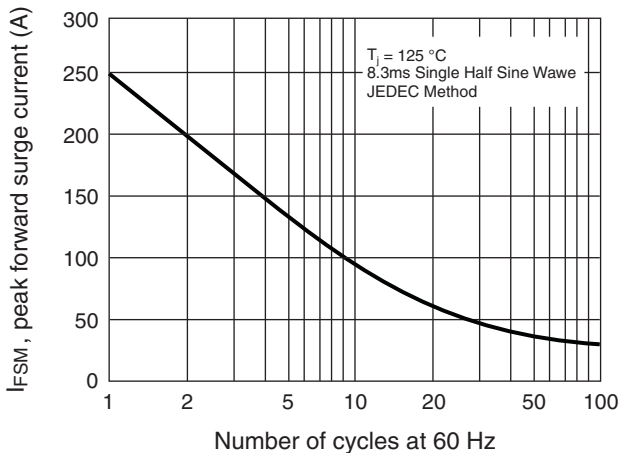
MAXIMUM FORWARD CURRENT DERATING CURVE



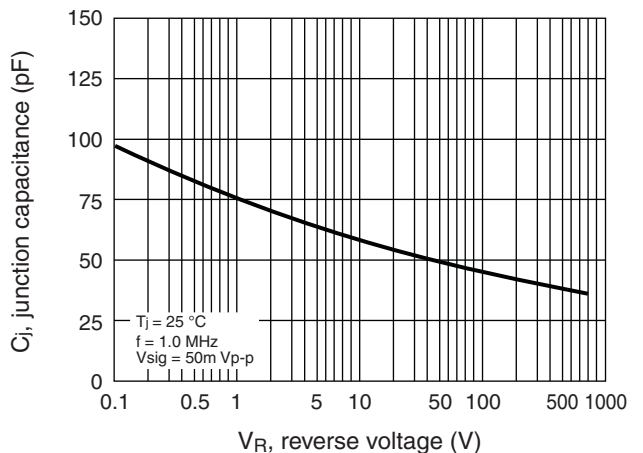
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG



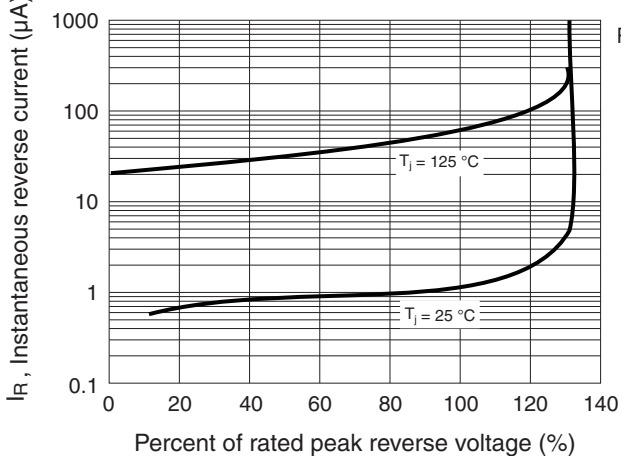
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



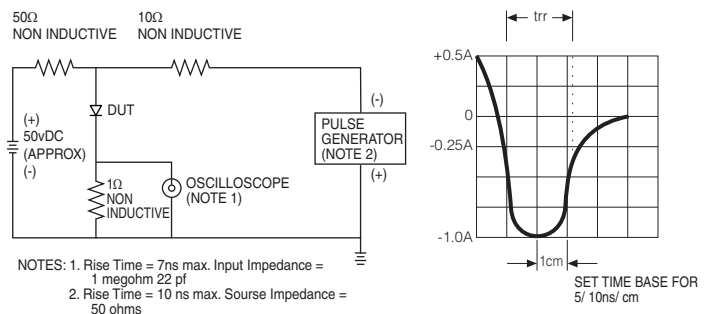
TYPICAL JUNCTION CAPACITANCE



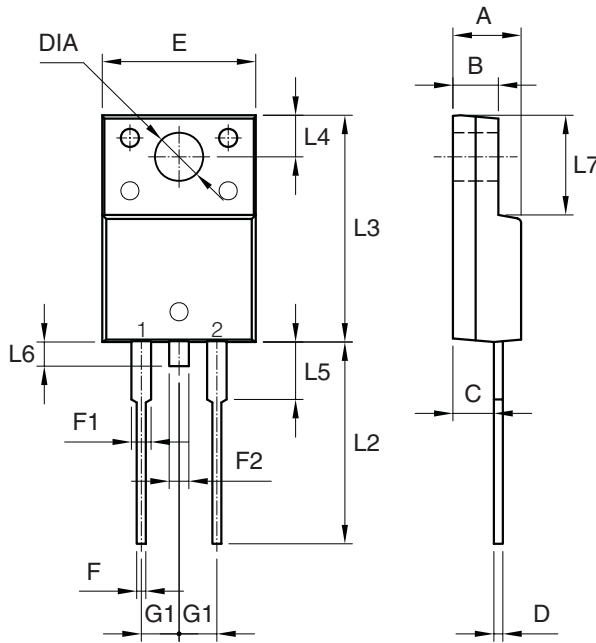
TYPICAL REVERSE CHARACTERISTICS PER LEG



REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PACKAGE MECHANICAL DATA ITO-220AC



REF.	DIMENSIONS		
	Milimeters		
	Min.	Nominal	Max.
A	4.40	-	4.70
B	3.00	-	3.16
C	2.50	-	2.80
D	0.50	-	0.76
E	9.90	-	10.30
F	0.50	-	0.90
F1	1.10	-	1.40
F2	-	-	1.80
G1	2.40	2.55	2.70
L2	13.20	-	13.80
L3	14.80	-	15.50
L4	2.55	-	2.85
L5	3.70	-	4.10
L6	-	-	1.60
L7	6.30	-	6.90
DIA	3.00	-	3.40