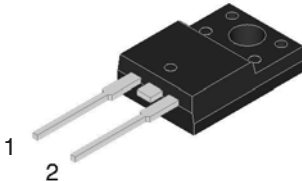
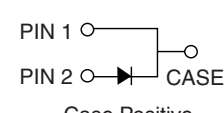


## Isolated 10.0 Amp. Glass Passivated Fast Recovery Rectifiers

<p><b>ITO-220AC</b></p>  <div style="text-align: center; margin-top: 10px;">  <p>PIN 1 ○ PIN 2 ○ → CASE Case Positive</p> </div>	<p><b>Voltage</b> 200 to 1000 V</p>	<p><b>Current</b> 10.0 A</p>
<ul style="list-style-type: none"> <li>Glass passivated chip junction.</li> <li>High efficiency, Low VF</li> <li>High current capability</li> <li>High reliability</li> <li>High surge current capability</li> <li>Low power loss</li> </ul>		
<p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>Case: ITO-220AC Molded plastic</li> <li>Epoxy: UL 94V-0 rate flame retardant</li> <li>Terminals: Pure tin plated, Lead free. Leads solderable per MIL-STD-202, Method 208 guaranteed</li> <li>Polarity: As marked</li> <li>High temperature soldering guaranteed: 260 °C/10 seconds/6.35mm from case.</li> <li>Mounting position: Any</li> <li>Weight: 2.24 grams</li> <li>Mounting torque: 5 in - 1bs. max.</li> </ul>		

### Absolute Maximum Ratings, according to IEC publication No. 134

		<b>FRAF 1003G</b>	<b>FRAF 1004G</b>	<b>FRAF 1005G</b>	<b>FRAF 1006G</b>	<b>FRAF 1007G</b>
$V_{RRM}$	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 @ $T_c = 55\text{ °C}$	10 A				
$I_{FSM}$	Peak Forward Surge Current 8.3 ms. single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	150 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 $T_j = 25\text{ °C}$	60 pF				
$T_j, T_{stg}$	Operating and Storage Temperature Range	- 65 to + 150 °C				

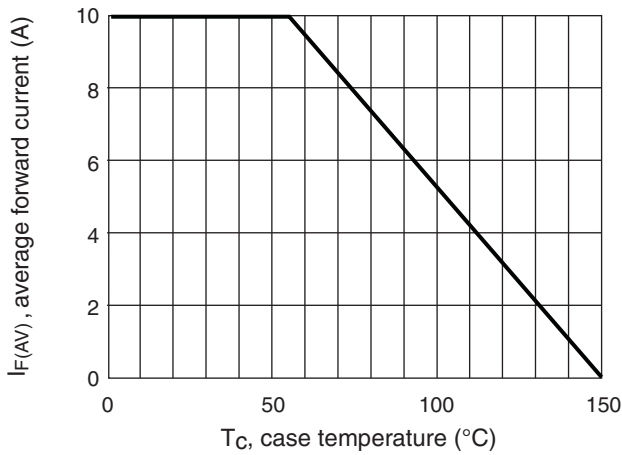
### Electrical Characteristics

		<b>FRAF 1003G</b>	<b>FRAF 1004G</b>	<b>FRAF 1005G</b>	<b>FRAF 1006G</b>	<b>FRAF 1007G</b>
$V_F$	Max. Instantaneous Forward Voltage @10.0 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 $\mu\text{A}$ 100 $\mu\text{A}$				
$R_{thj-C}$	Typical Thermal Resistance (Note 1)	5.0 °C/W				

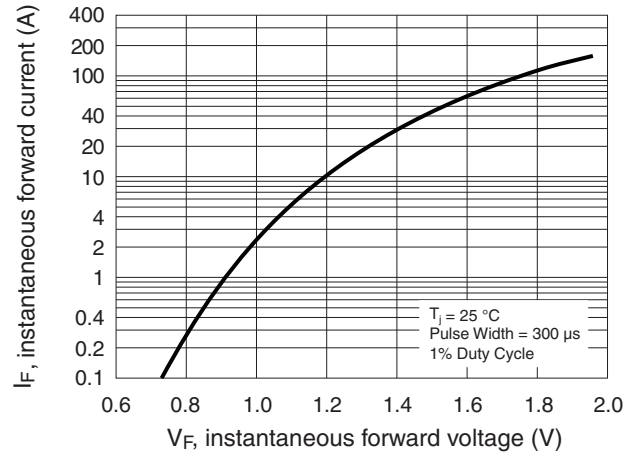
Note: 1. Thermal Resistance from Junction to case Per Leg Mounted on Heatsink  
Size of 50.8 mm x 76.2 mm x 6.35 mm Al-Plate.

### Rating And Characteristic Curves

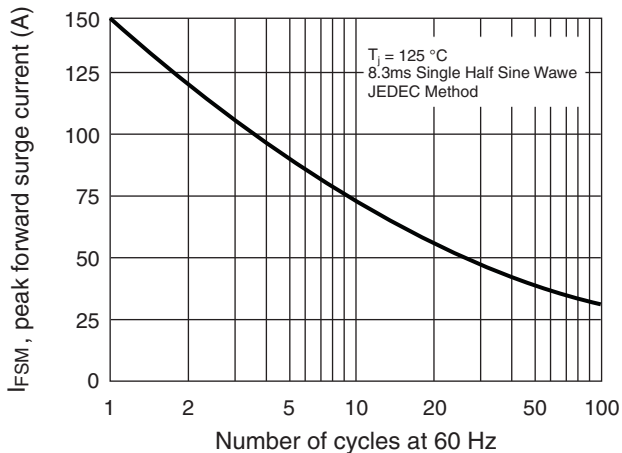
MAXIMUM FORWARD CURRENT DERATING CURVE



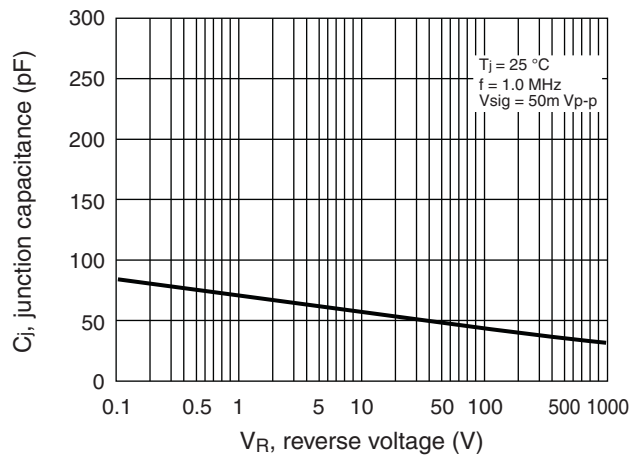
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



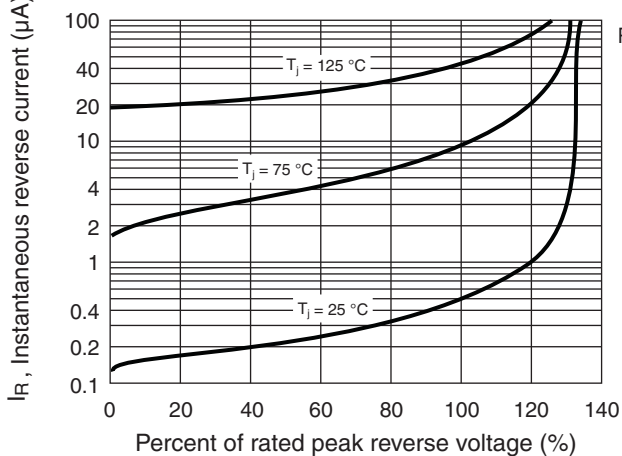
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



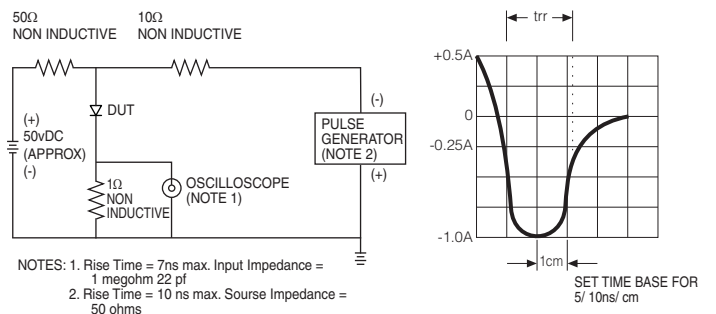
TYPICAL JUNCTION CAPACITANCE



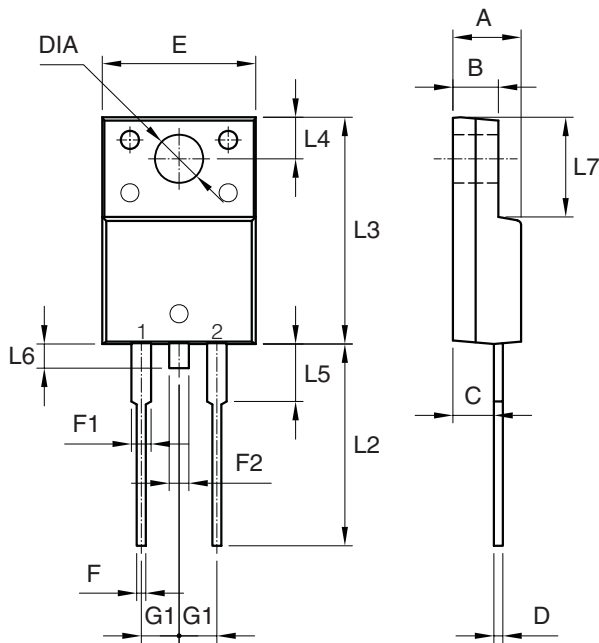
TYPICAL REVERSE CHARACTERISTICS



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