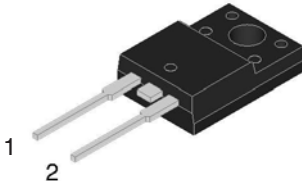
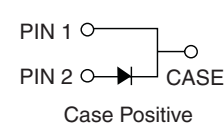


16.0 Amp. Glass Passivated Ultrafast Rectifiers

<h3 style="margin: 0;">ITO-220AC</h3>  <div style="text-align: center; margin-top: 10px;">  <p style="margin: 0;">Case Positive</p> </div>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;">Voltage</td> <td style="text-align: center; border-bottom: 1px solid black;">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> <ul style="list-style-type: none"> Glass passivated chip junction. High efficiency, Low VF High current capability High reliability High surge current capability For use in low voltage, high frequency inverter, free wheeling, and polarity protection application. <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Cases: ITO-220AC Molded plastic Epoxy: UL 94V0 rate flame retardant Terminals: Pure tin plated, lead free solderable per MIL-STD-202, Method 208 guaranteed Polarity: As marked High temperature soldering guaranteed: 260 °C/10 seconds, 6.35mm from case. Mounting torque: 5 in - 1bs. Max. Weight: 2.24 grams 	Voltage	Current	200 to 1000 V	16.0 A
Voltage	Current				
200 to 1000 V	16.0 A				

Absolute Maximum Ratings, according to IEC publication No. 134

		HERAF 1603G	HERAF 1605G	HERAF 1606G	HERAF 1607G	HERAF 1608G
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 = 100 °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 A; I _R = 1 A; I _{RR} = 0.25 A	50 nS		80 nS		
C _j	Typical Junction Capacitance at 1MHz and reverse voltage of 4V _{DC}	150 pF		110 pF		
T _j	Operating Temperature Range	- 65 to + 150 °C				
T _{stg}	Storage Temperature Range	- 65 to + 150 °C				

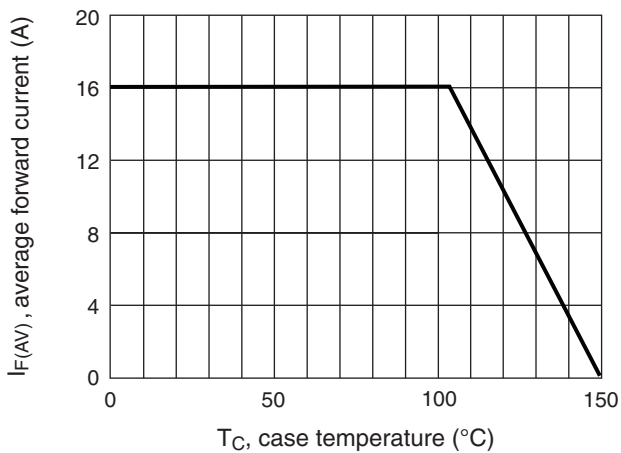
Electrical Characteristics

		HERAF 1603G	HERAF 1605G	HERAF 1606G	HERAF 1607G	HERAF 1608G
V _F	Max. Instantaneous Forward Voltage @16.0 A	1.0 V	1.3 V	1.7 V		
I _R	Maximum DC Reverse Current @ T _A = 25 °C at Rated DC Blocking Voltage @ T _A = 125 °C	10 µA				
R _{thj-c}	Typical Thermal Resistance (Note 1)	2.0 °C/W				

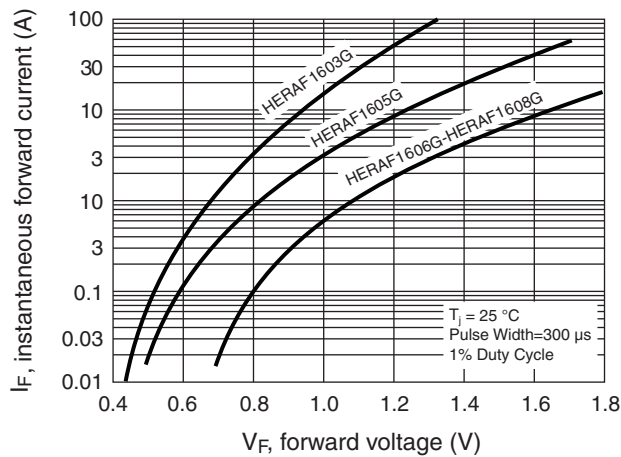
Note: 1. Mounted on Heatsink Size of 50.8 mm x 76.2 mm x 6.35 mm Al-Plate.

Rating And Characteristic Curves

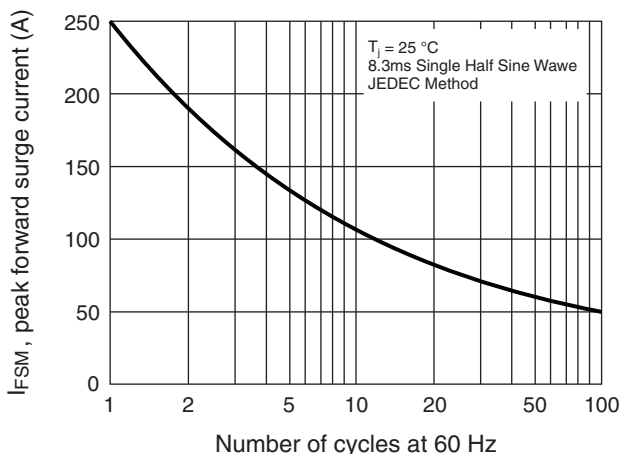
MAXIMUM FORWARD CURRENT DERATING CURVE



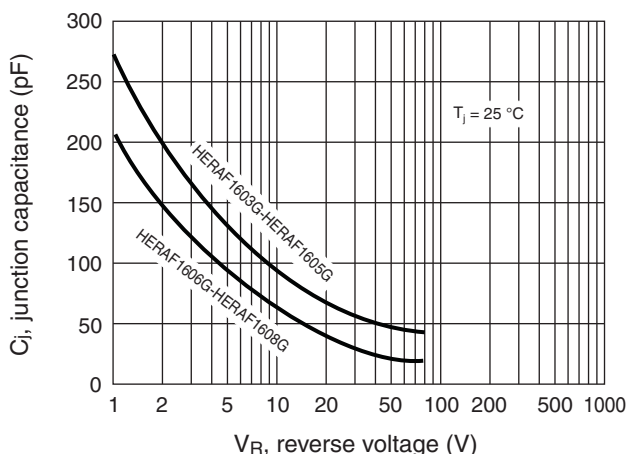
TYPICAL FORWARD CHARACTERISTICS



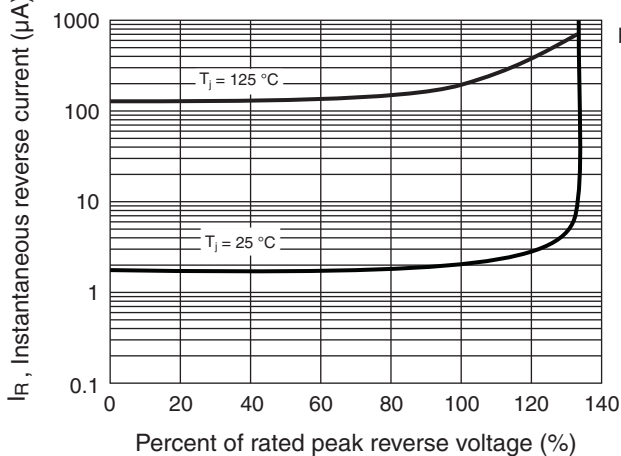
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



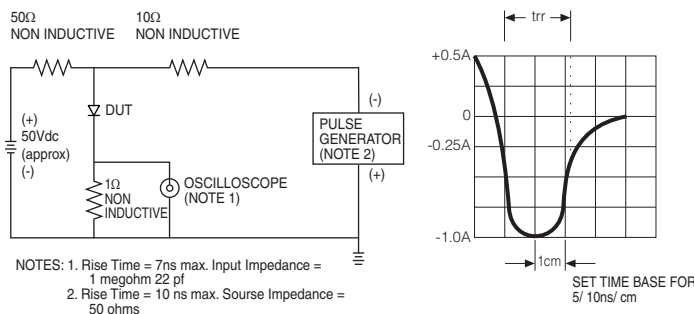
TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTICS PER LEG

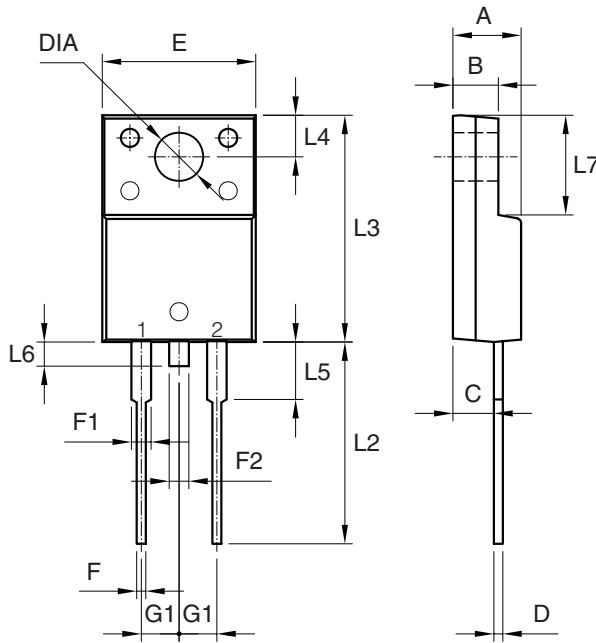


REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



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

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