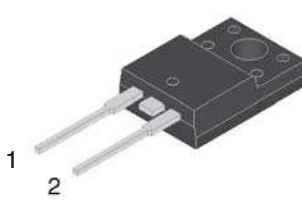
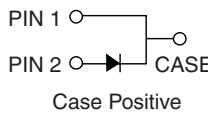




10.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

<p>ITO-220AC</p>  	<p>Voltage 200 to 1000 V</p>	<p>Current 10.0 A</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> • Ultrafast recovery time for high efficiency • Low power losses • Low forward voltage drop • High forward surge current capability • Solder dip 260°C, 10s / 16" (4.06 mm) from case • Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 		  RoHS COMPLIANT
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: ITO-220AC. Epoxy meets UL 94V-0 flammability rating. • Polarity: As marked on the body. • Mounting Torque: 5 in-lbs maximum. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. 		
	<p>TYPICAL APPLICATIONS</p> <p>Used in high frequency rectifier of switching mode power supplies, inverters, freewheeling diodes, dc-to-dc converters, and other power switching application.</p>		

Maximum Ratings and Electrical Characteristics at 25°C

		HERAF 1003G	HERAF 1005G	HERAF 1006G	HERAF 1007G	HERAF 1008G
Marking Code		HERAF1003G	HERAF1005G	HERAF1006G	HERAF1007G	HERAF1008G
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	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 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}	80 pF		60 pF		
T _j	Operating Temperature Range	- 65 to + 150 °C				
T _{stg}	Storage Temperature Range	- 65 to + 150 °C				

Electrical Characteristics at Tamb = 25 °C

V _F	Max. Instantaneous Forward Voltage @10.0 A(Note 2)	1.0 V	1.3 V	1.7 V
I _R	Maximum DC Reverse Current @ T _c = 25 °C at Rated DC Blocking Voltage @ T _c = 125 °C	10 µA 400 µA		
R _{thj-c}	Typical Thermal Resistance (Note 1)	2.0 °C/W		

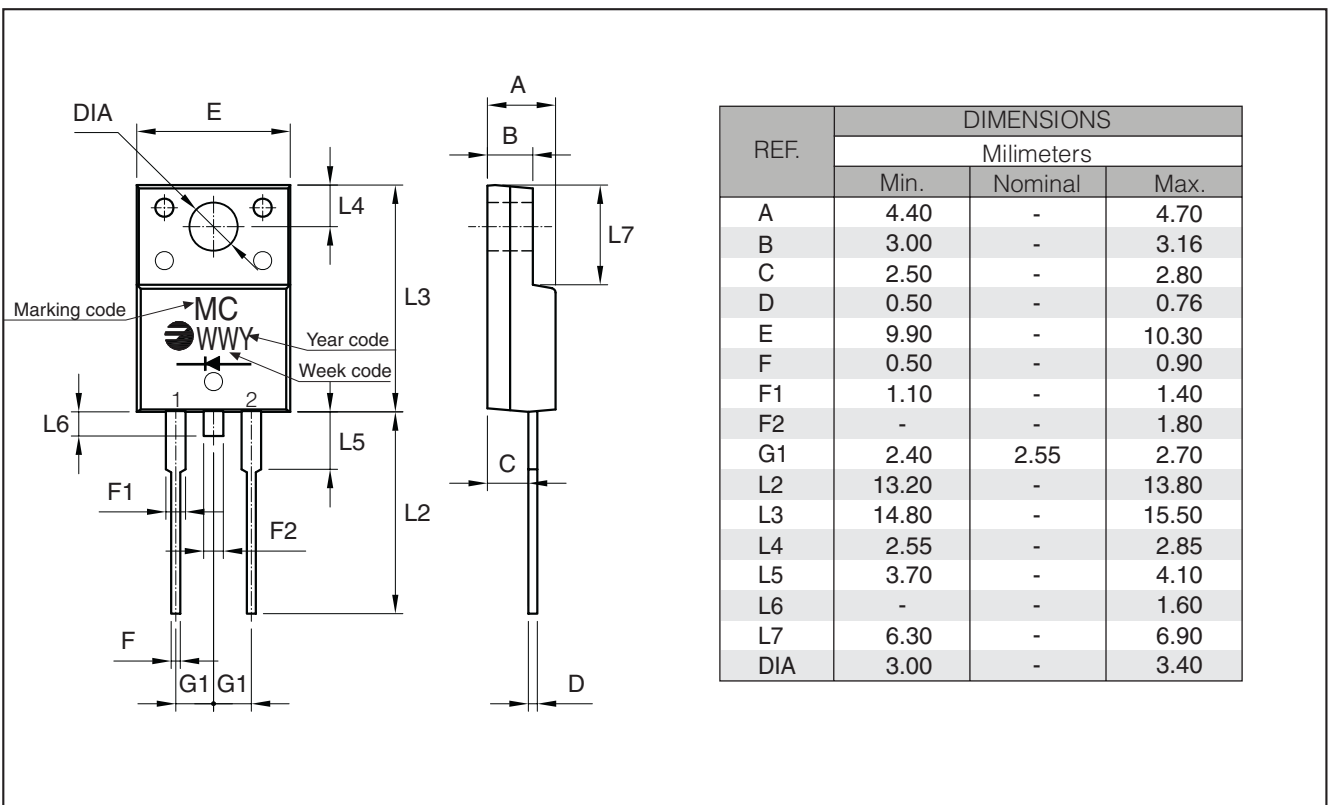
Note: 1. Mounted on Heatsink Size of 50.8 mm x 76.2 mm x 6.35 mm Al-Plate.
 2. Pulse test: 300µs pulse width, 1% duty cycle.

10.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
HERAF1006G 00TUC	TU	TUBE	2,000	1.80

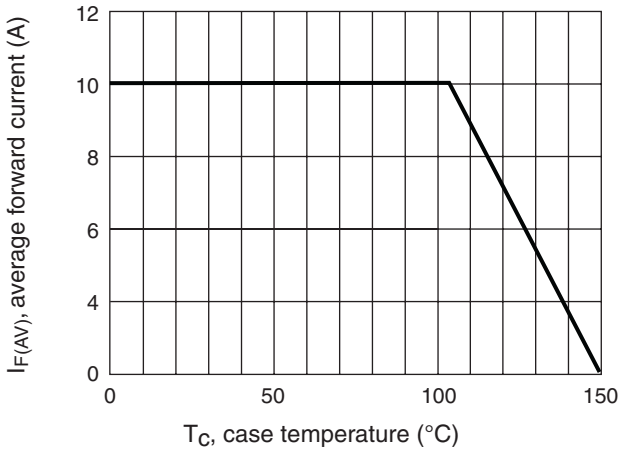
Package Outline Dimensions: (mm) ITO-220AC



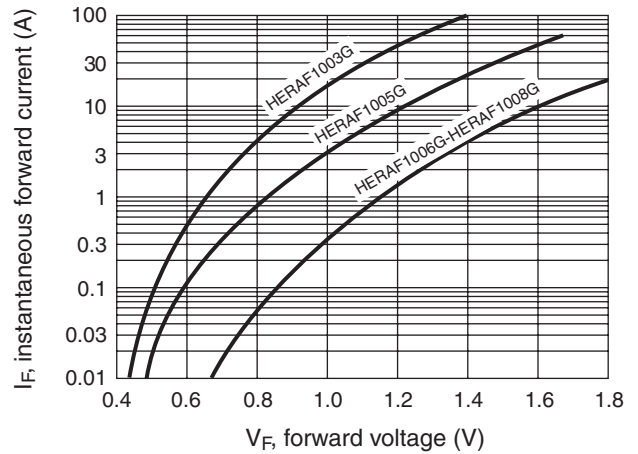
10.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)

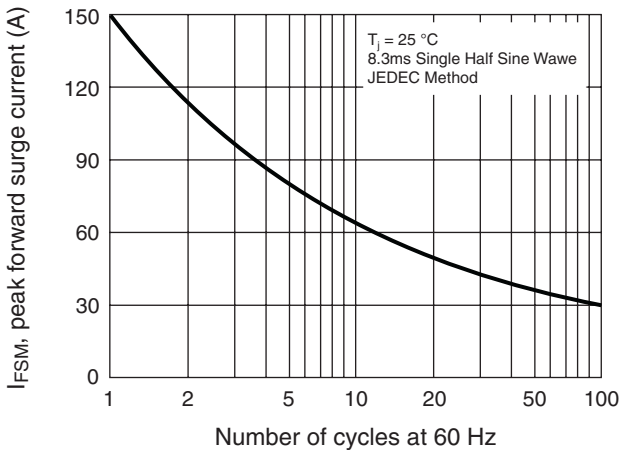
MAXIMUM FORWARD CURRENT DERATING CURVE



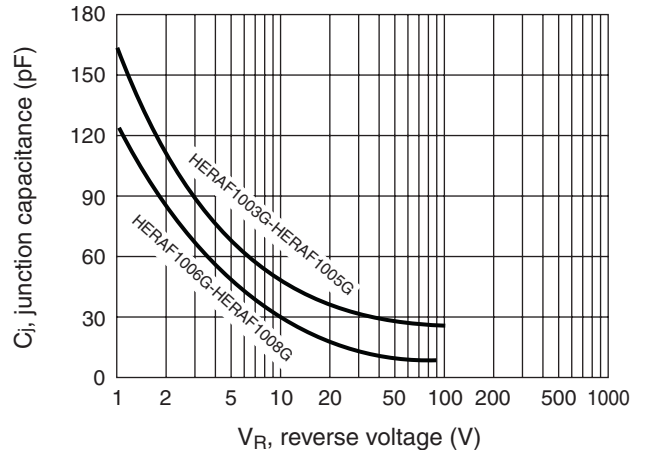
TYPICAL FORWARD CHARACTERISTICS



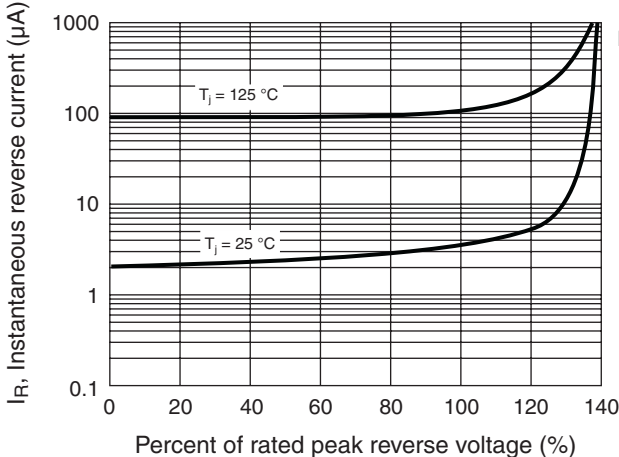
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



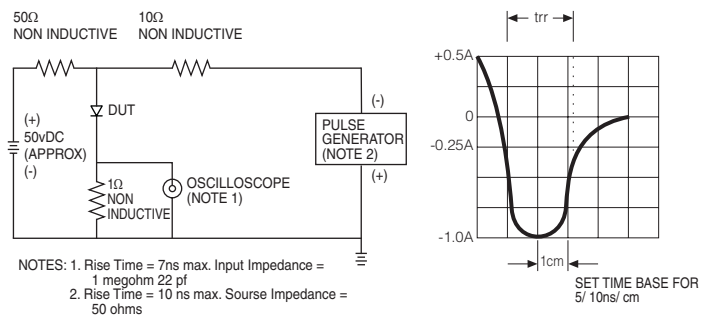
TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTICS



REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



10.0 Amp. Glass Passivated Ultrafast Recovery Rectifier**Disclaimer**

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