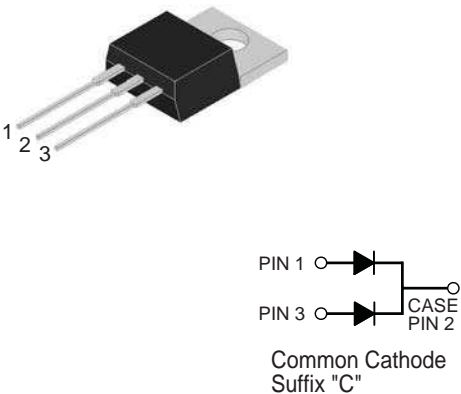


16.0 Amp. Glass Passivated Ultrafast Rectifiers

TO-220AB  <p style="text-align: center;">Common Cathode Suffix "C"</p>	Voltage 200 V to 1000 V	Current 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 • For use in low voltage, high frequency inverter, free wheeling, and polarity protection application. 	
	MECHANICAL DATA <ul style="list-style-type: none"> • Cases: TO-220AB 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, 4.06mm from case. • Weight: 2.24 grams 	

Absolute Maximum Ratings, according to IEC publication No. 134

		HER 1603G	HER 1605G	HER 1606G	HER 1607G	HER 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)	125 A				
T _{rr}	Maximum Reverse Recovery Time from I _F = 0.5A; I _R = 1A; I _{RR} = 0.25A	50 nS		80 nS		
C _j	Typical Junction Capacitance at 1 MHz and reverse voltage of 4V _{DC}	80 pF		50 pF		
T _j	Operating Temperature Range	-65 to +150 °C				
T _{stg}	Storage Temperature Range	-65 to +150 °C				

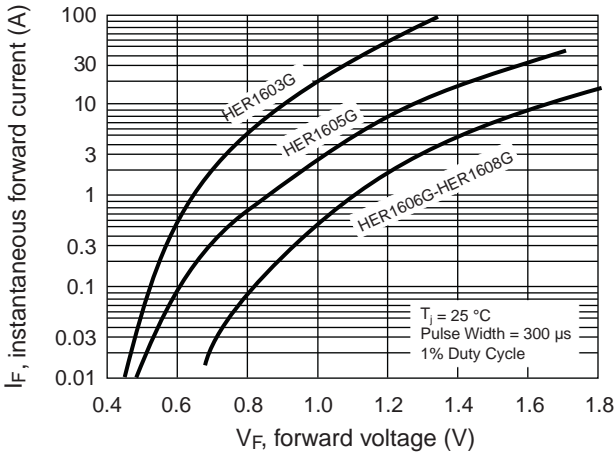
Electrical Characteristics

V _F	Maximum Instantaneous Forward Voltage @ 8.0 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 400 µA		
R _{thj-c}	Typical Thermal Resistance (See note)	1.5 °C/W		

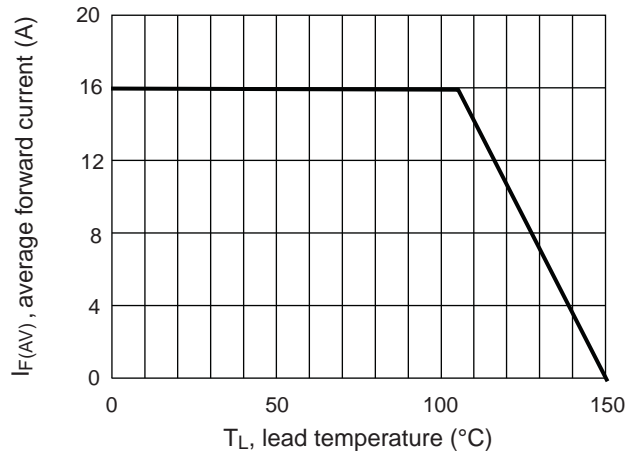
NOTE: Mounted on Heatsink Size of 4 in x 6 in x 0.25 Al-Plate.

Rating And Characteristic Curves

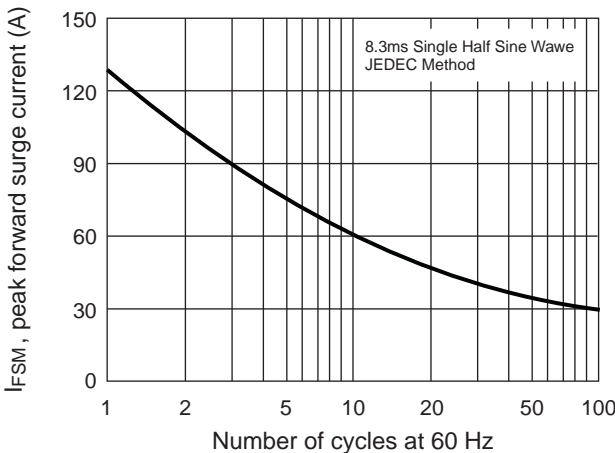
TYPICAL FORWARD CHARACTERISTICS



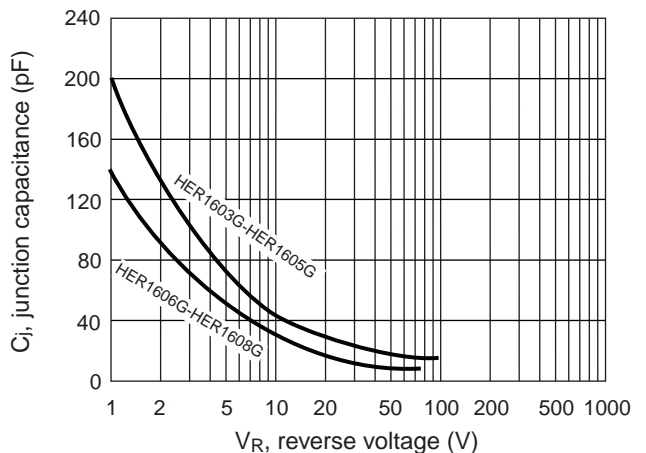
MAXIMUM FORWARD CURRENT DERATING CURVE



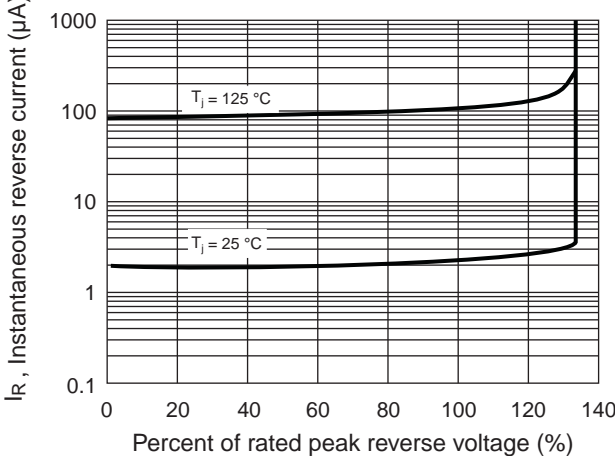
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



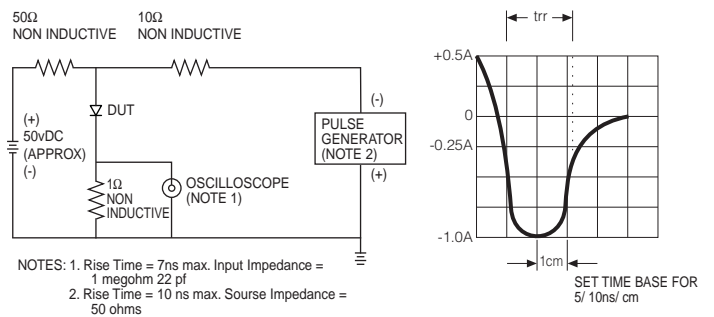
TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTICS



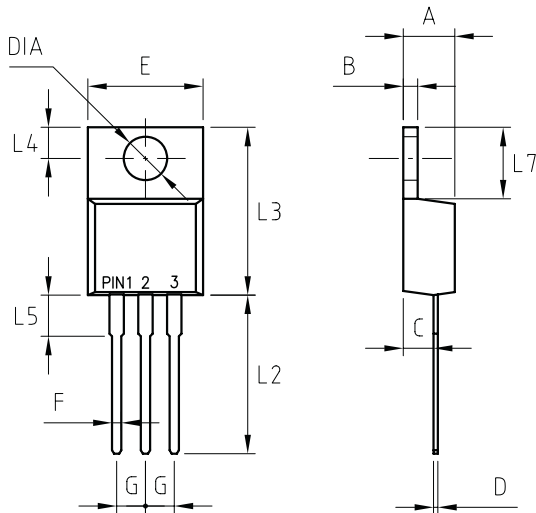
REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



10.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

PACKAGE MECHANICAL DATA

TO-220AB



REF.	DIMENSIONS	
	Milimeters	
	Min.	Max.
A	4.44	4.70
B	1.14	1.40
C	2.54	2.79
D	0.35	0.64
E	--	10.5
F	0.68	0.94
G	2.41	2.67
L2	13.46	14.22
L3	14.90	15.10
L4	2.62	2.87
L5	3.56	4.06
L7	5.84	6.86
DIA	3.74	3.91