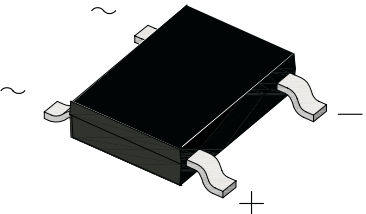
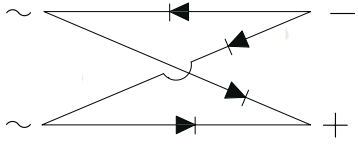




1.0 Amp. Miniature Glass Passivated Ultrafast Surface Mount Bridge Rectifier

<p>DFS</p>  	<p>Voltage 200 V to 1000 V</p>	<p>Current 1.0 A</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> • Ultrafast reverse recovery time for high frequency • Ideal for automated placement • High forward surge current capability • Solder dip 260°C, 10s • 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 250° C 		  RoHS COMPLIANT
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: DFS Epoxy meets UL 94V-0 flammability rating. • Polarity: As marked on body. • 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 ac-to-dc bridge full wave rectification for SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications..</p>		

Maximun Ratings and Electrical Characteristics at 25°C

		HEDFS 103G	HEDFS 104G	HEDFS 105G	HEDFS 106G	HEDFS 107G
Marking Code		DFS103G	DFS104G	DFS105G	DFS106G	DFS107G
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 @ $T_A = 40^\circ C$	1.0 A				
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	50 A				
T_{rr}	Max. reverse recovery time from $I_F = 0.5 A$; $I_R = 1 A$; $I_{RR} = 0.25 A$	50 nS		75 nS		
C_j	Typical Junction Capacitance	25 pF				
$R_{th(j-l)}$ $R_{th(j-a)}$	Typical Thermal Resistance (Note 2)	15 °C/W 40 °C/W				
T_j	Operating Temperature Range	-55 to + 150 °C				
T_{stg}	Storage Temperature Range	-55 to + 150 °C				

Electrical Characteristics at Tamb = 25 °C

V_F	Max. Instantaneous Forward Voltage @ 1.0A	1.0 V	1.3 V	1.7 V
I_R	Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 125^\circ C$	5.0 μA 500 μA		

Note: 1. DBS for Surface Mount Package.

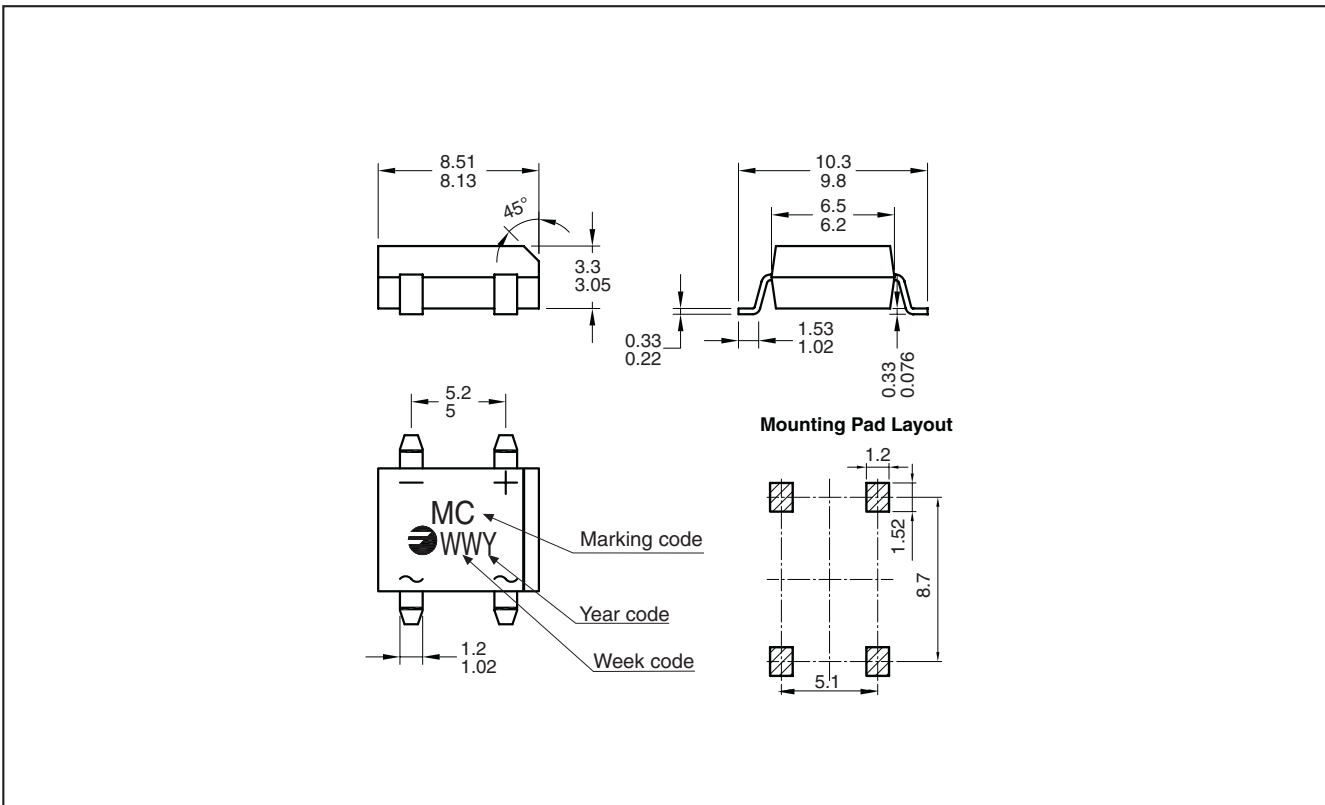
2. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted On P.C.B. with 5 x 5mm Copper Pads.

1.0 Amp. Miniature Glass Passivated Ultrafast Surface Mount Bridge Rectifier

Ordering information

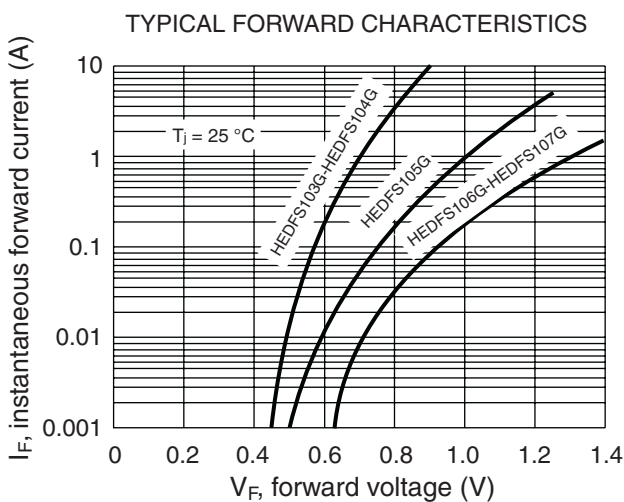
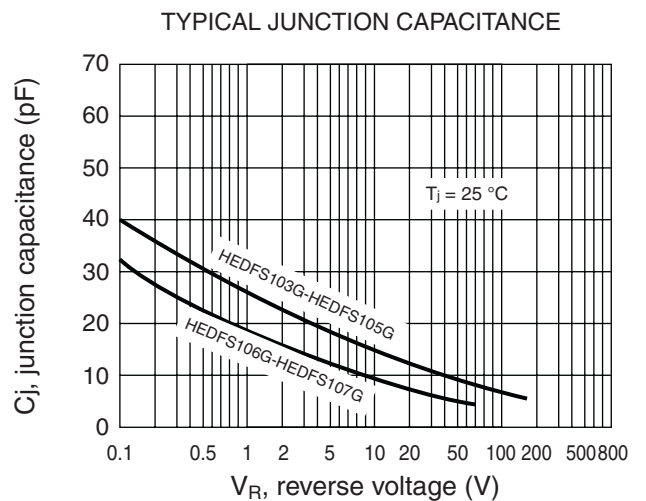
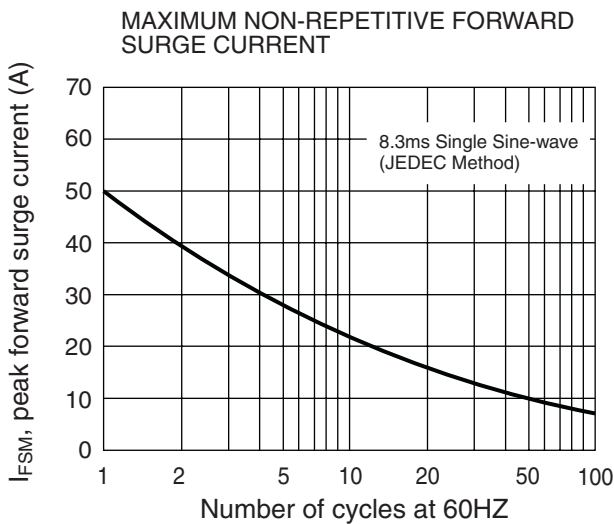
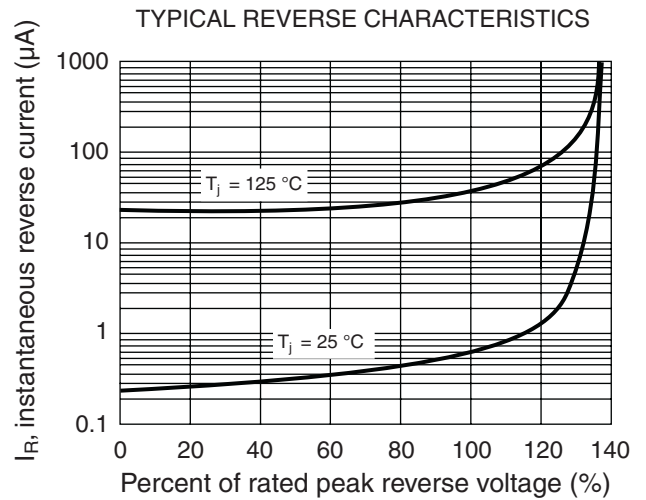
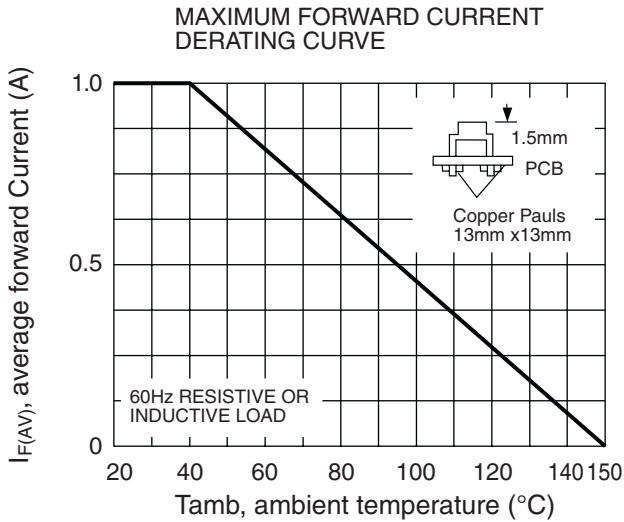
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
HEDFS106G TR	TR	13" diameter tape and reel	3,000	0.399

Package Outline Dimensions: (mm) DFS

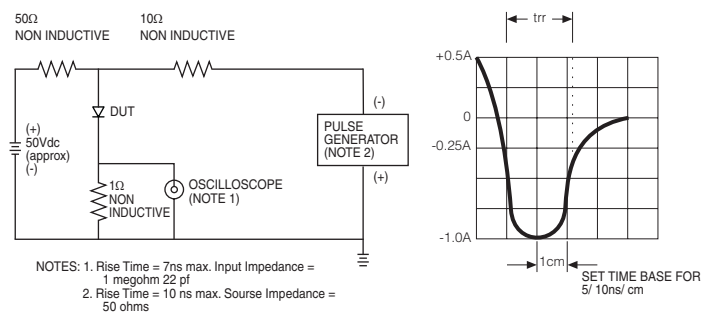


1.0 Amp. Miniature Glass Passivated Ultrafast Surface Mount Bridge Rectifier

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



REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



1.0 Amp. Miniature Glass Passivated Ultrafast Surface Mount Bridge Rectifier**Disclaimer**

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