

**SURFACE MOUNT
GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - **100 to 1000** Volts
FORWARD CURRENT - **0.8** Amperes

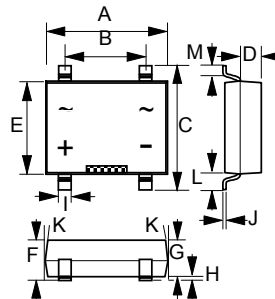
FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL recognition File # E95060

MECHANICAL DATA

- Polarity : Symbol molded on body
- Weight : 0.0044 ounces, 0.125 grams
- Mounting position : Any

HDDF



HDDF		
DIM.	MIN.	MAX.
A	4.50	4.90
B	2.30	2.70
C	—	7.00
D	1.20	1.60
E	3.60	4.00
F	—	3.00
G	2.30	2.70
H	—	0.20
I	0.50	0.80
J	0.15	0.35
K	5° TYPICAL	
L	1.30	1.70
M	0.70	1.10
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	HD01	HD02	HD04	HD06	HD08	HD10	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (Note 1) @T _A =40 °C	I _(AV)	0.8						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I _{FSM}	30						A
Maximum Forward Voltage at 0.4A DC	V _F	1						V
Maximum DC Reverse Current @T _J =25 °C at Rated DC Blocking Voltage @T _J =125 °C	I _R	5 500						uA
I ² t Rating for fusing (t < 8.3ms)	I ² t	3.7						A ² S
Typical Junction Capacitance per element (Note 2)	C _J	15						pF
Typical Thermal Resistance (Note 3)	R _{θ JA}	52						°C/W
Operating Temperature Range	T _J	-55 to + 150						°C
Storage Temperature Range	T _{STG}	-55 to + 150						°C

NOTES : 1. Mounted on P.C. board.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance Junction to Ambient.

REV. 9, Sep-2012, KBDB01

FIG.1 - FORWARD CURRENT DERATING CURVE

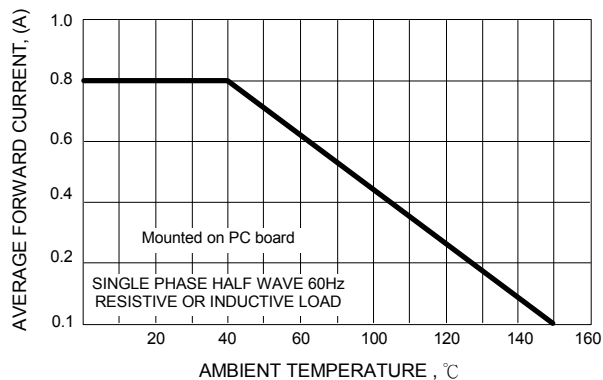


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

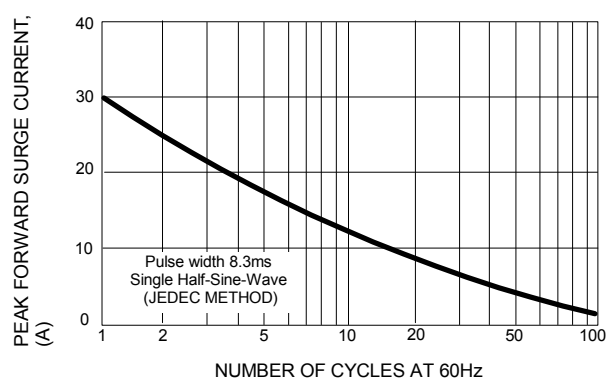


FIG.3 - TYPICAL JUNCTION CAPACITANCE

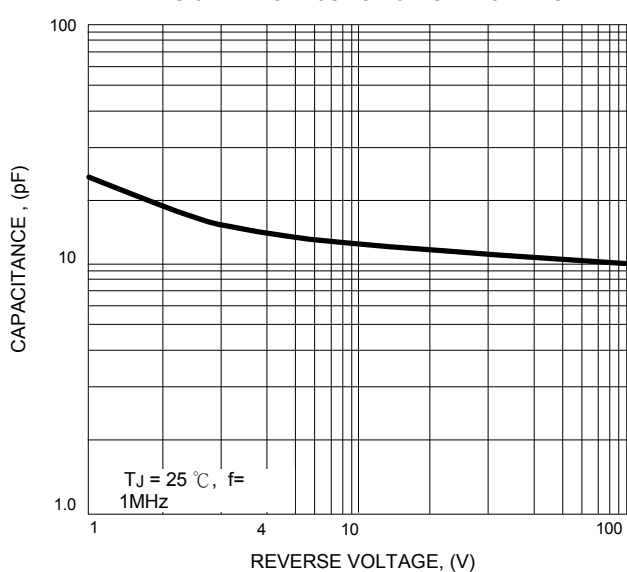


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

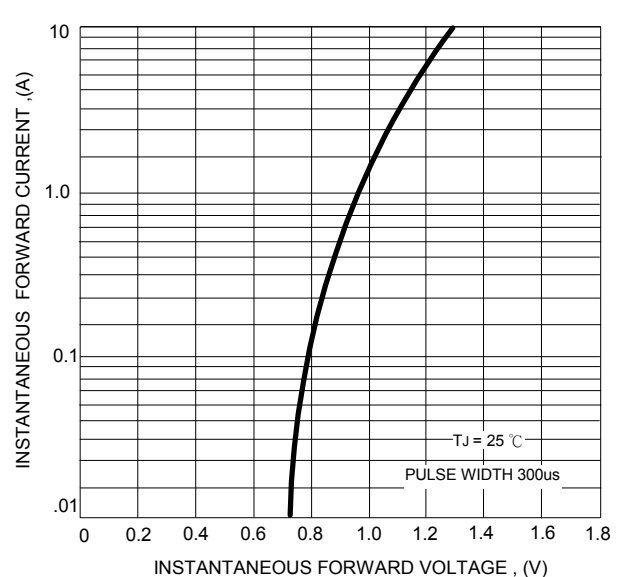
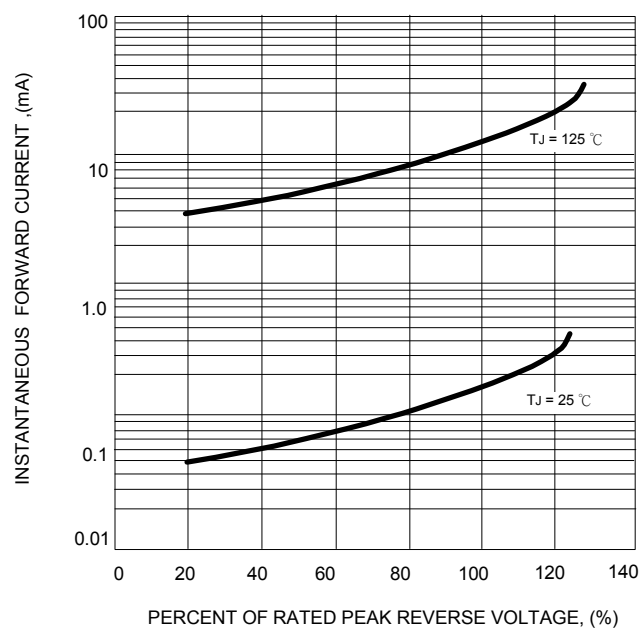


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.