

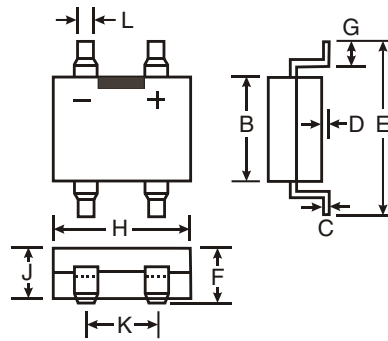
0.8A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Ideally Suited for Automatic Assembly
- Miniature Package Saves Space on PC Boards
- UL Listed Under Recognized Component Index, File Number E94661
- Available in Lead Free Finish/RoHS Compliant Version (Note 3)

Mechanical Data

- Case: MiniDIP
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020C
- Terminals: Plated Leads, Solderable per MIL-STD-202, Method 2026
- Also Available in Lead Free Plating (Matte Tin Finish). Please See Ordering Information, Note 5, on Page 3
- Polarity: As Marked on Case
- Weight: 0.125 grams (approx.)
- Marking: Type Number, Date Code & Polarity Markings



MiniDIP		
Dim	Min	Max
B	3.6	4.0
C	0.15	0.35
D	—	0.20
E	—	7.0
F	—	3.00
G	0.70	1.10
H	4.5	4.9
J	2.3	2.7
K	2.3	2.7
L	0.50	0.80
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	HD01	HD02	HD04	HD06	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RMM} V _{RWM} V _{DC}	100	200	400	600	V
RMS Reverse Voltage	V _{RMS}	70	140	280	420	V
Average Forward Rectified Current (Note 1) T _A = @ 40°C	I _O	0.8				A
Non-Repetitive Peak Forward Surge Current, 8.3 ms Single half-sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30				A
Instantaneous Voltage Drop @ 0.4A (per element)	V _F	1.0				V
Peak Reverse Current at Rated DC Blocking Voltage (per element) @ T _A = 25°C @ T _A = 125°C	I _R	5.0 500				μA
Typical Junction Capacitance (per element) (Note 2)	C _j	10				pF
Typical Thermal Resistance, Junction to Ambient (Note 1)	R _{θJA}	75				°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to +150				°C

- Notes:
1. Mounted on Ceramic PC Board.
 2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0 V.
 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

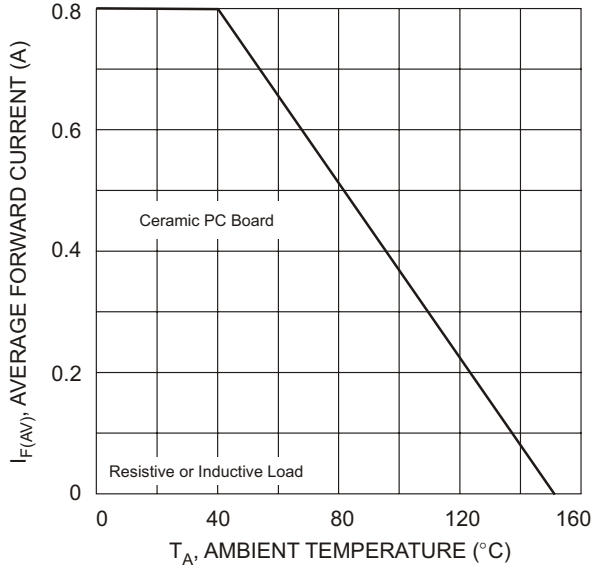


Fig. 1 Output Current Derating Curve

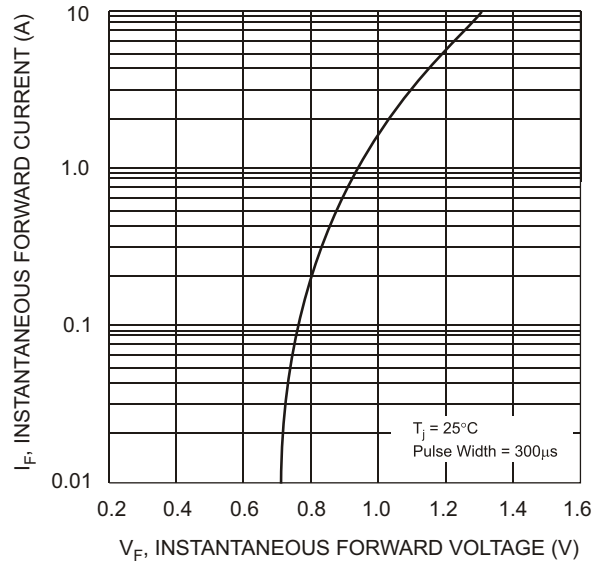


Fig. 2 Typical Forward Characteristics (per leg)

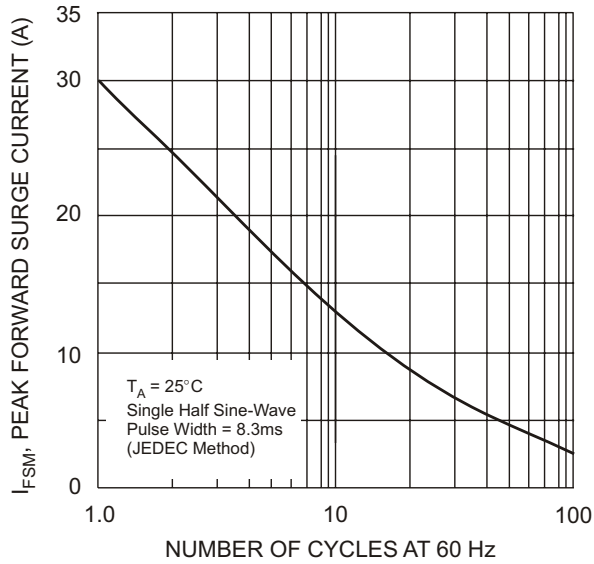


Fig. 3 Maximum Peak Forward Surge Current (per leg)

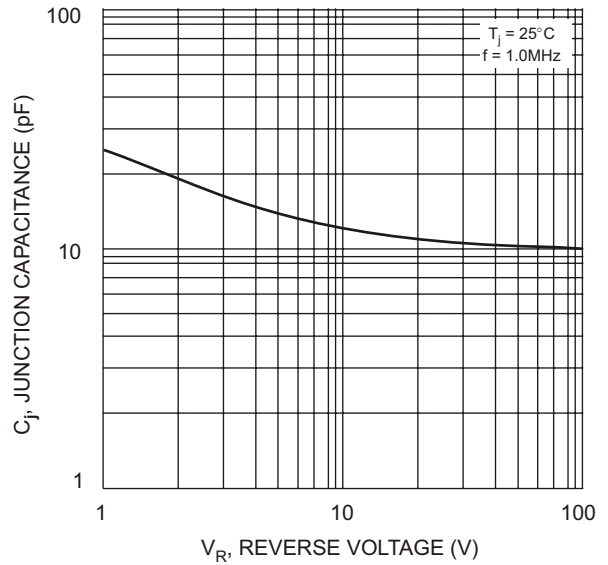


Fig. 4 Typical Junction Capacitance

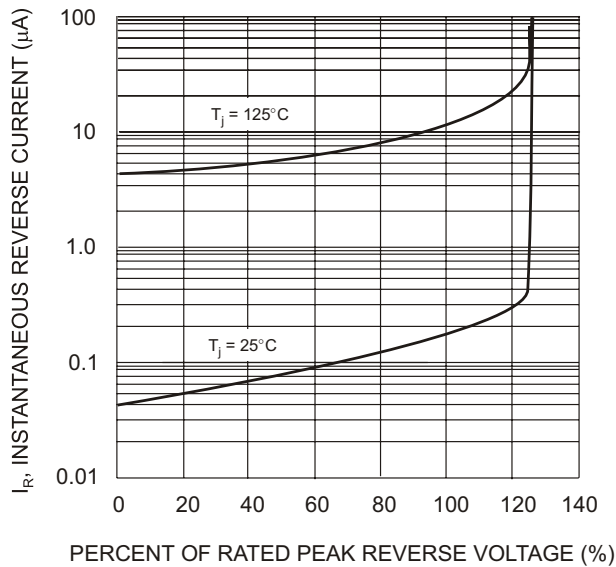


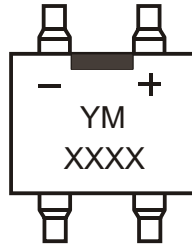
Fig. 5 Typical Reverse Characteristics (per element)

Ordering Information (Notes 4 & 5)

Device*	Packaging	Shipping
HDxx-T	MiniDIP	3K/Tape & Reel, 13-inch

*xx = Device type, e.g. HD02-T or HD04-T, etc.

- Notes:
4. For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.
 5. For Lead Free Finish/RoHS Compliant version part number, please add "-F" suffix to the part number above. Example: HD04-T-F.

Marking Information

YM = Date code marking
XXXX = Product type marking code,
Ex: HD04