



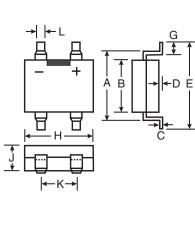
0.8A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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
- Lead Free Finish, RoHS Compliant (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: Finish Tin. Plated Leads, Solderable per MIL-STD-202, Method 208 (3)
- Polarity: As Marked on Case
- Marking: Type Number, Date Code & Polarity Markings
- Weight: 0.125 grams (approximate)



MiniDIP							
Dim	Min	Max					
Α	5.43	5.75					
В	3.6	4.0					
С	0.15	0.35					
D	0.05	0.20					
E		7.0					
G	0.70	1.10					
н	4.5	4.9					
J	2.3	2.7					
к	2.3	2.7					
L	0.50	0.80					
All Dimensions in mm							



Equivalent Schematic

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

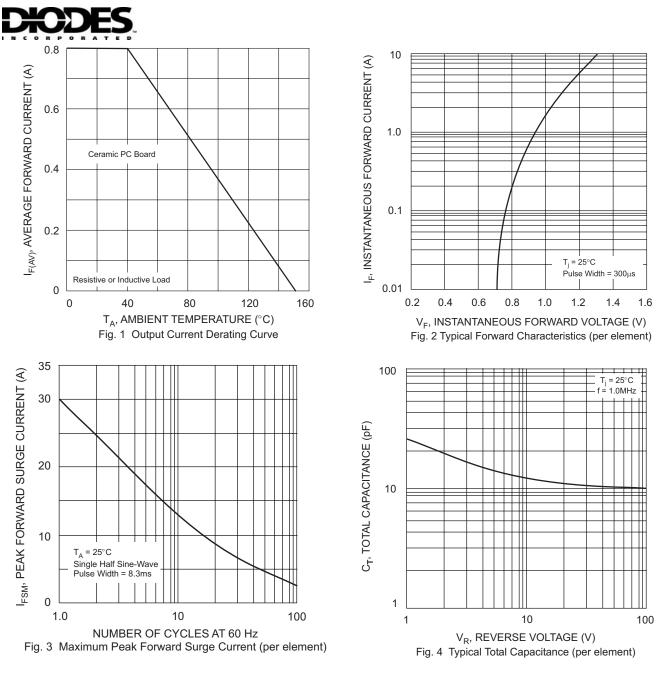
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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) $T_A = @ 40^{\circ}C$	lo	0.8				
Non-Repetitive Peak Forward Surge Current, 8.3 ms Single half-sine-wave Superimposed on Rated Load	I _{FSM}	30				
Instantaneous Voltage Drop @ 0.4A (per element)	VF	1.0				
Peak Reverse Current at Rated@ $T_A = 25^{\circ}C$ DC Blocking Voltage (per element)@ $T_A = 125^{\circ}C$	I _R	5.0 500				
Typical Total Capacitance (per element) (Note 2)	CT	10				
Typical Thermal Resistance, Junction to Ambient (Note 1)	R _{0JA}	75				
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150				

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.



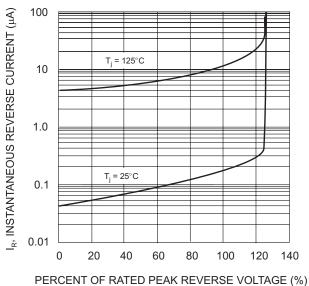


Fig. 5 Typical Reverse Characteristics (per element)



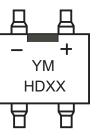
Ordering Information (Note 4)

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.

Marking Information



YM = Date code marking Y = Last digit of the year M = See Month/Code Table Below HDXX = Product type marking code, Ex: HD04

Month	Jan	Feb	March	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	Ν	D

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