

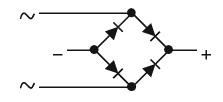
0.8A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features and Benefits

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Ideally Suited for Automated Assembly
- Miniature Package Saves Space on PC Boards
- UL Listed Under Recognized Component Index, File Number E94661
- Lead Free Finish, RoHS Compliant (Note 1)

Mechanical Data

- Case: MiniDIP
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Tin. Plated Leads, Solderable per MIL-STD-202, Method 208 🔞
- Polarity: As Marked on Case
- Marking: Type Number, Date Code & Polarity Markings
- Weight: 0.125 grams (approximate)



Equivalent Circuit

Ordering Information (Note 2)

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

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

Notes: 1. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes

2. For packaging details, visit our website at http://www.diodes.com.

Marking Information



HDxx = Product Type Marking Code (ex: HD04) YM = Date Code Marking Y = Last Digit of the Year M = See Month/Code Table Below

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



Maximum Ratings $@T_A = 25^{\circ}C$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	HD01	HD02	HD04	HD06	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RMM} V _{RWM} Vdc	100	200	400	600	V
RMS Reverse Voltage	V _{RMS}	70	140	280	420	V
Average Forward Rectified Current (Note 3) $@T_A = 40^{\circ}C$	lo		C	.8		Α
Non-Repetitive Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}		:	30		А

Thermal Characteristics

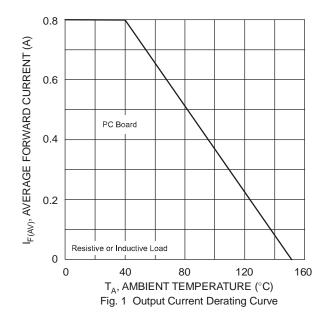
Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Ambient (Note 3)	$R_{ ext{ heta}JA}$	75	°C/W
Operating and Storage Temperature Range	TJ, T _{STG}	-55 to +150	°C

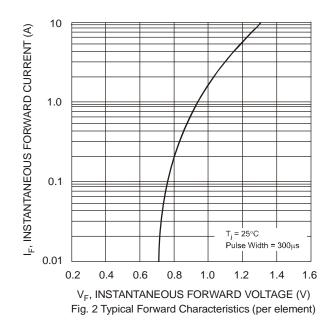
Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Instantaneous Voltage Drop @ 0.4A (per element)	VF	1.0	V
Peak Reverse Current at Rated @T _A = 25°C	1	5.0	
DC Blocking Voltage (per element) @T _A = 125°C	IR	500	μΑ
Typical Total Capacitance (per element) (Note 4)	CT	10	pF

Notes: 3. Mounted on PC Board.

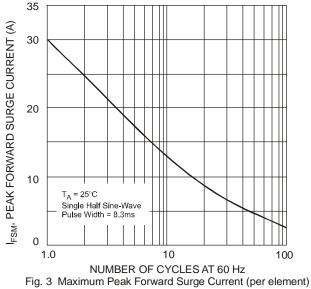
4. Measured at 1.0 MHz and applied reverse voltage of 4.0V.







HD01 - HD06



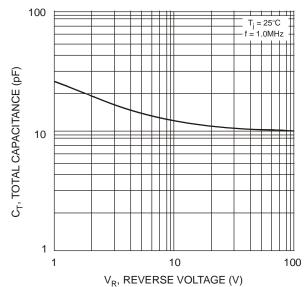
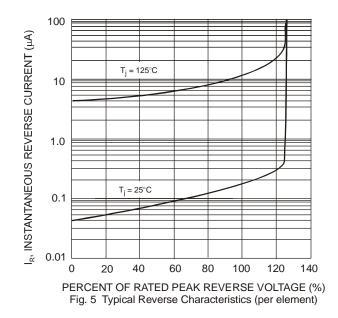
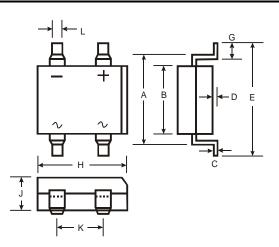


Fig. 4 Typical Total Capacitance (per element)



Package Outline Dimensions



MiniDIP						
Dim	Min	Max				
Α	5.43	5.75				
В	3.6	4.0				
С	0.15	0.35				
D	0.05	0.20				
ш	_	7.0				
G	0.70	1.10				
H	4.5	4.9				
۔	2.3	2.7				
K	2.3	2.7				
L	0.50	0.80				
All Dimensions in mm						



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