

HD01 thru HD10

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE – 100 to 1000 Volts FORWARD CURRENT – 0.8 Amperes

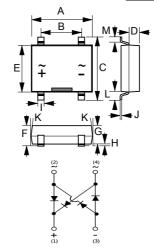
FEATURES

- 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 bodyWeight: 130 mg (Approximate)Mounting position: Any

HDDF



	LIDDE				
	HDDF				
DIM.	MIN.	MAX			
Α	4.50	4.90			
В	2.30	2.70			
С	-	7.00			
D	1.20	1.60			
Е	3.60	4.00			
F	-	3.00			
G	2.30	2.70			
Н	-	0.20			
ı	0.50	0.80			
J	0.15	0.35			
K	5° TYPICAL.				
L	1.30	1.70			
М	0.70	1.10			
All dimension in millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	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 (Note1) @T _A =40°C	I _(AV)	0.8			Α			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.	I _{FSM}	30			Α			
I ² t rating for fusing (t < 8.3ms)	I ² t	3.7		A^2S				
Operating junction temperature range	TJ	-55 to +150		°C				
Storage temperature range	T _{STG}			-55 to	+150			°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST COM	IDITIONS	SYMBOL	MAX	UNIT
Forward voltage	IF=0.4A	T _J =25°C	V _F	1.0	٧
Leakage current	VR rated	T _J =25°C T _J =125°C	I _R	5.0 500	uA
Typical junction capacitance (Note2)		CJ	15	pF	

THERMAL CHARACTERISTICS

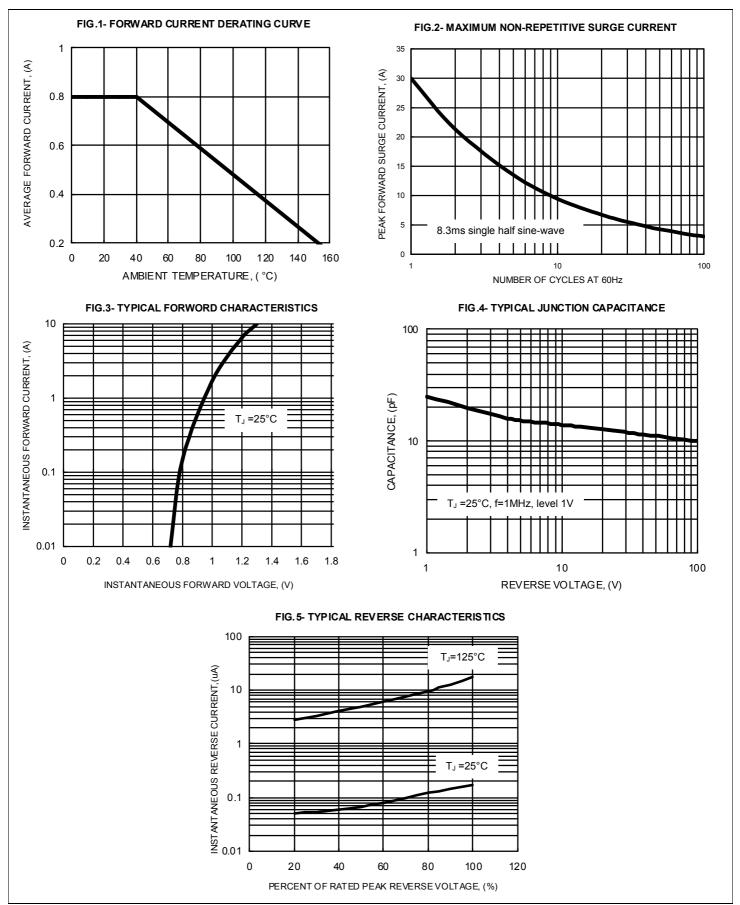
PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance (Note3)	RthJ _A	52	°C/W
Note:	REV. 11, FEB2015, KE	BDB01	

Note: (1) Mounted on P.C.B.

- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- (3) Thermal resistance junction to ambient.

RATING AND CHARACTERISTIC CURVES HD01 thru HD10







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