LITE-ON SEMICONDUCTOR

RH01 thru RH08

SURFACE MOUNT
GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - **100** to **800** Volts
FORWARD CURRENT - **0.8** Amperes

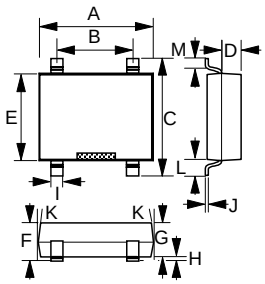
FEATURES

- Rating to 800V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Fast recovery, low loss switching
- The plastic material has UL recognition File # E95060

MECHANICAL DATA

- Polarity : Symbol marked 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℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	RH01	RH02	RH04	RH06	RH08	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	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
MaximumForward Voltage at 0.4A DC	V_F	1.15					V
Maximum DC Reverse Current @T_J=25℃ at Rated DC Blocking Voltage @T_J=125℃	I_R	5 100					uA
Maximum Reverse Recovery Time	T_{RR}	150			250	500	ns
Typical Junction Capacitance per element (Note 2)	C_J	13					pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	75					˚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. 0, 14-Feb-2001, KBDB02

RATING AND CHARACTERISTIC CURVES
RH01 thru RH08

FIG.1 - FORWARD CURRENT DERATING CURVE

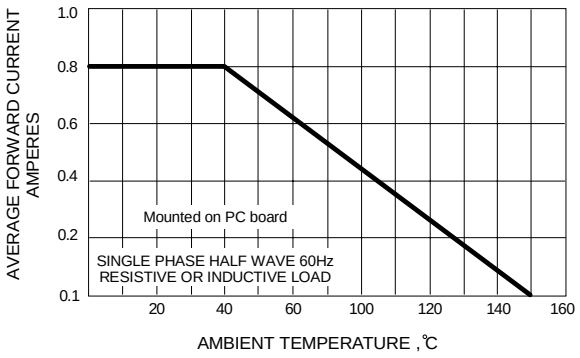


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

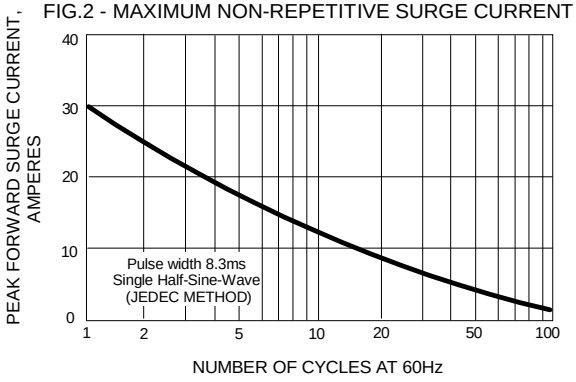


FIG.3 - TYPICAL JUNCTION CAPACITANCE

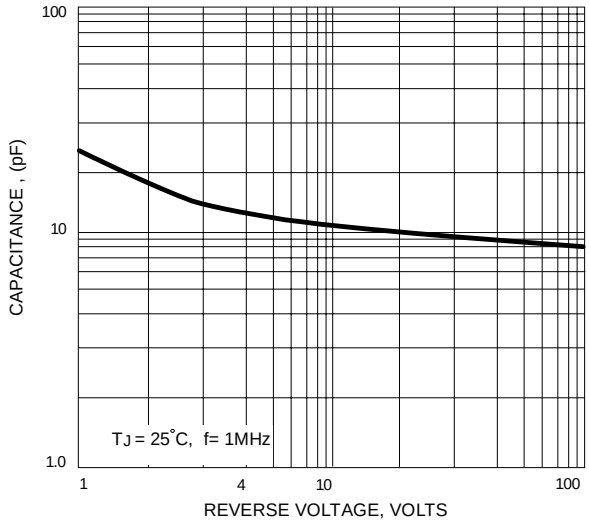


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

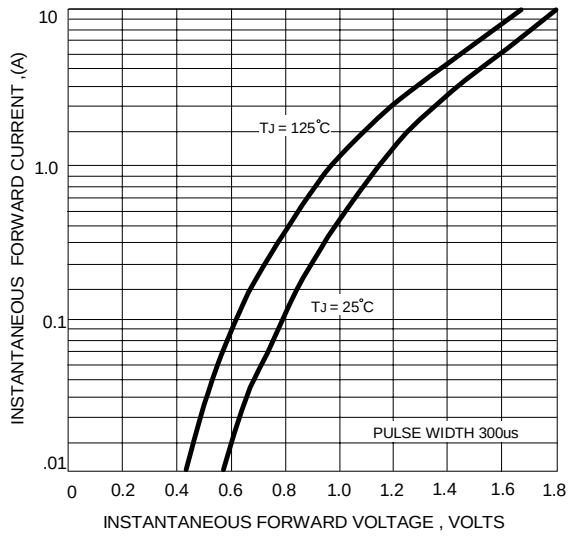


FIG.5 - TYPICAL REVERSE CHARACTERISTICS