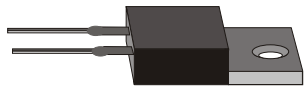
HER801 - HER808

HIGH EFFICIENCY GLASS PASSIVATED RECTIFIER DIODES



VOLTAGE RANGE: 50 -1000V
CURRENT: 8.0 A

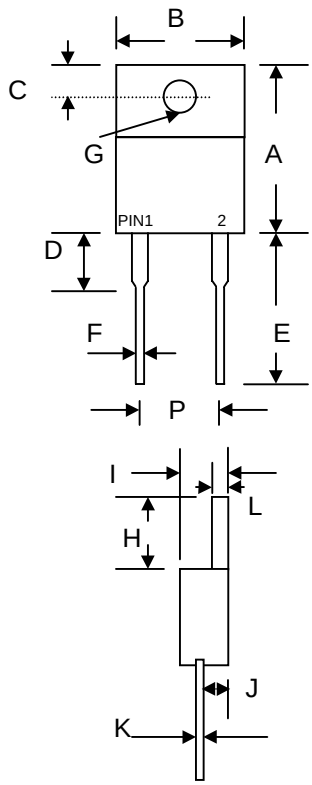
Features

- Low switching noise
- Low forward voltage drop
- Low thermal resistance
- High current capability
- High fast switching capability
- High surge capacity

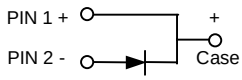
Mechanical Data

- Case: TO-220 molded plastic
- Epoxy: UL94V-0 rate flame retadant
- Lead: MIL-STD-202E method 208C guaranteed
- Mounting position :Any
- Weight: 2.24 grams

RoHS COMPLIANT



TO-220		
Dim	**Min**	**Max**
A	14.9	15.1
B	—	10.5
C	2.62	2.87
D	3.56	4.06
E	13.46	14.22
F	0.68	0.94
G	3.74 Ø	3.91 Ø
H	5.84	6.86
I	4.44	4.70
J	2.54	2.79
K	0.35	0.64
L	1.14	1.40
P	4.95	5.20
All Dimensions in mm		



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

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

Characteristic	Symbol	HER 801	HER 802	HER 803	HER 804	HER 805	HER 806	HER 807	HER 808	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	600	V
Maximum Average Forward Rectified Current @T_A =75 ℃	I_O	8.0								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I_{FSM}	300								A
Typical Thermal Resistance	R_{JA}	2.5								℃/W
Typical Junction Capacitance (Note2)	C_J	40								pF
Peak Instantaneous Forward Voltage at 8.0A DC	V_F	1.0			1.3			1.7		V
Maximum DC Reverse Current @T_J=25℃ at Rated DC Blocking Voltage @T_J=100℃	I_R	10 150								μA
Maximum Reverse Recovery Time(Note1)	T_{RR}	60								nS
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to + 150								℃

NOTES:1.Measured with I_F=0.5A,I_R=1A,I_{RR}=0.25A
2.Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC .

FIG.1- TYPICAL FORWARD CURRENT DERATING CURVE

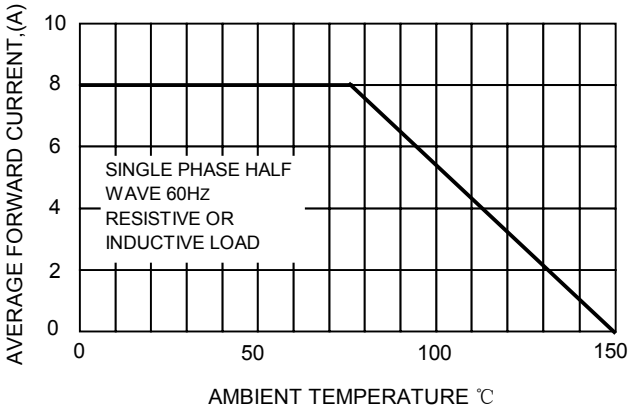


FIG.2-TYPICAL REVERSE CHARACTERISTICS

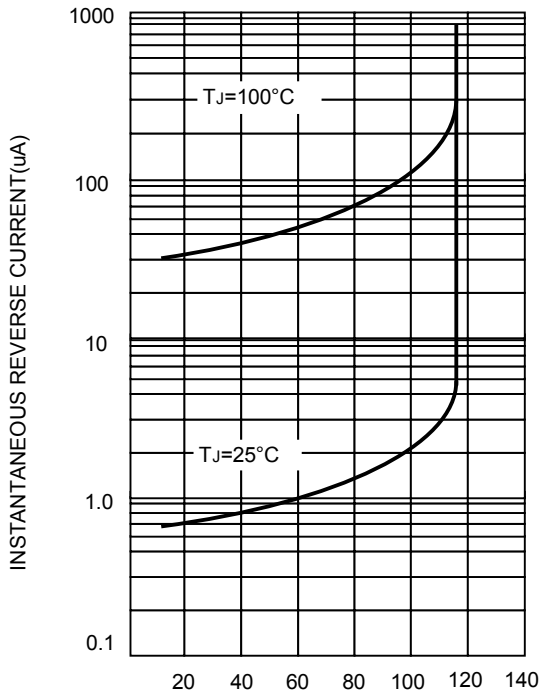


FIG.3-MAXIMUM NON-REPETITVE FORWARD SURGE CURRENT

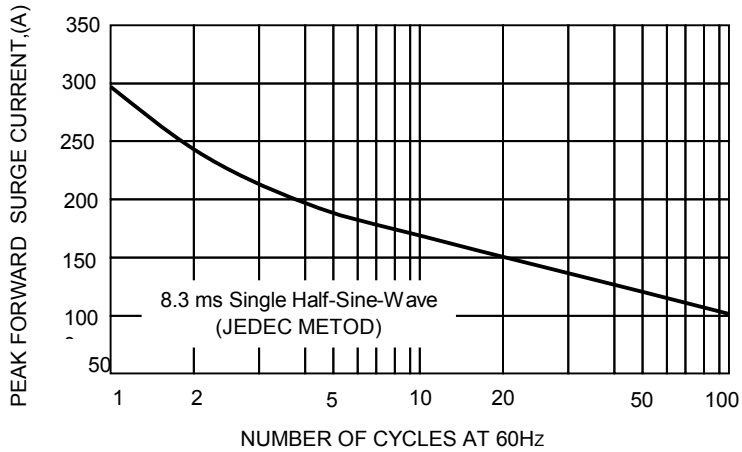


FIG.4-TYPICAL INSTANTAEOUS FORWARD CHARACTERISTICS

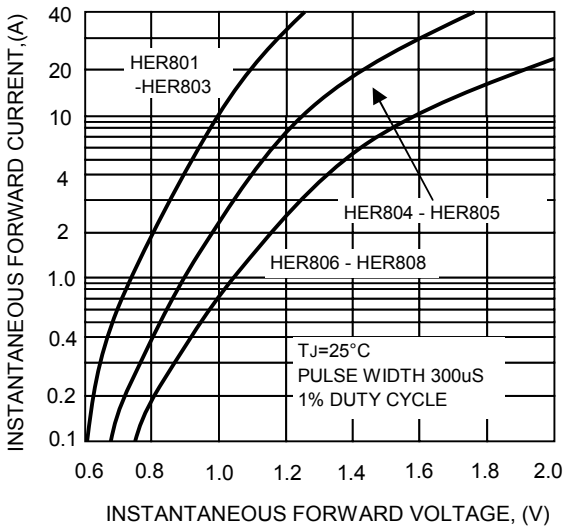


FIG.5-TYPICAL JUNCTION CAPACITANCE

