HER3001 thru HER3006

GLASS HIGH EFFICIENCY RECTIFIERS

REVERSE VOLTAGE - **50** to **600**Volts
FORWARD CURRENT - **30.0** Amperes

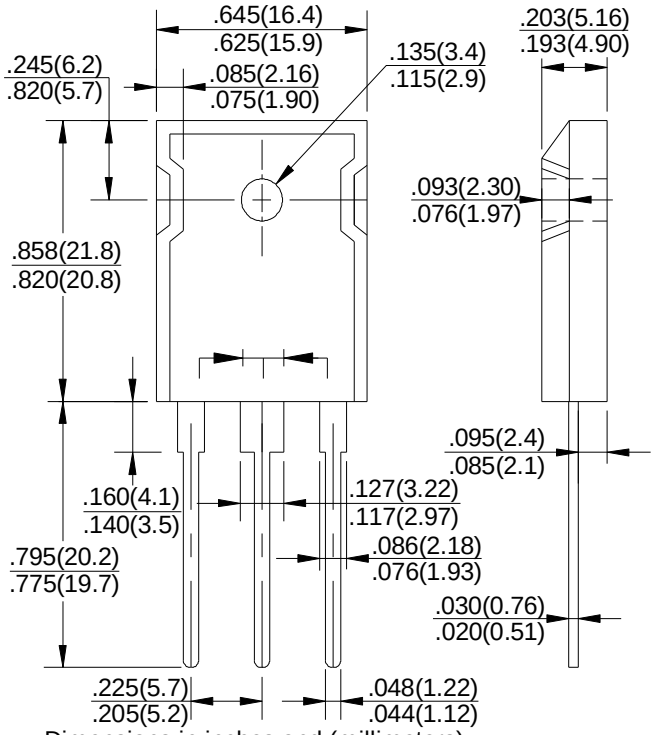
FEATURES

- ●Low power lose;high efficiency
- ●Low forward voltage drop
- ●Low thermal resistance
- ●High current capability
- ●High speed switching
- ●High surge capacity
- ●High reliability

MECHANICAL DATA

- ●Case: TO-3Pmolded plastic
- ●Epoxy: UL94V-0 rate flame retadant
- ●Lead: MIL-STD-202E method 208C guaranteed
- ●Mounting position :Any
- ●Weight:5.1grams
- ●polarity:As marked

TO-3P



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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	HER3001	HER3002	HER3003	HER3004	HER3005	HER3006	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	V
Maximum Average Forward Rectified Current @T_A =75 ℃	I_O	30						A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I_{FSM}	400						A
Tyical Thermal Resistance	$R_{\theta JA}$	1.0						℃/W
Tyical Junction Capacitance (Note2)	C_J	125						pF
Operating and Storage Temperature Range	T_J,T_{STG}	-65 to + 150						℃
Peak Forward Voltage at 15.0A DC	V_F	1.1				1.3	1.7	V
Maximum DC Reverse Current @T_J=25℃ at Rated DC Blocking Voltage @T_J=100℃	I_R	10 150						uA
Maximum Reverse Recoverry Time(Note1)	T_{RR}	60						nS

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 4.0VDC.

3.Suffix"A" =common anode

FIG.1- TYPICAL FORWARD CURRENT DERATING CURVE

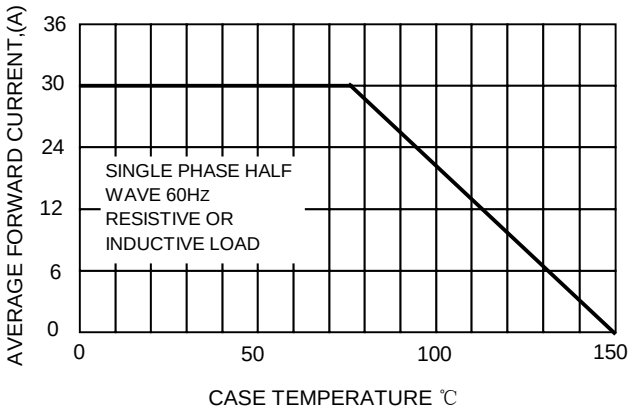


FIG.2-TYPICAL REVERSE
CHARACTERISTICS

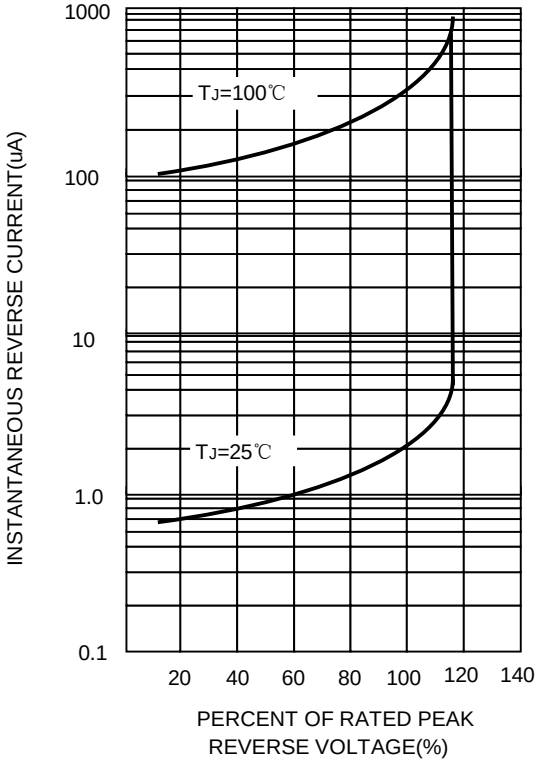


FIG.3-MAXIMUM NON-REPETITVE FORWARD SURGE CURRENT

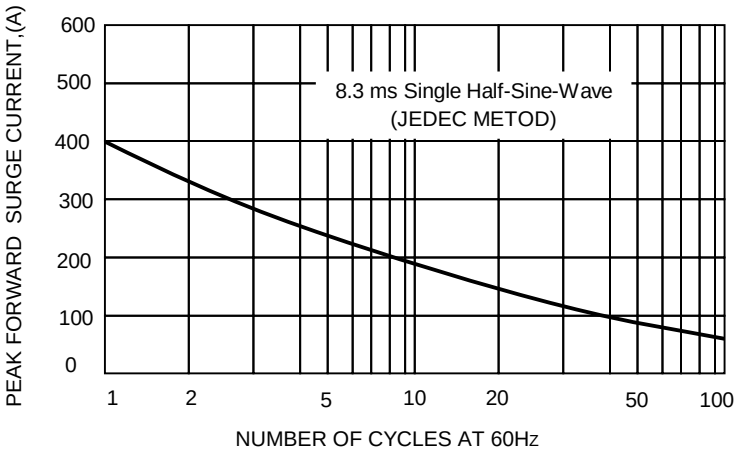


FIG.4-TYPICAL INSTANTAEOUS
FORWARD CHARACTERISTICS

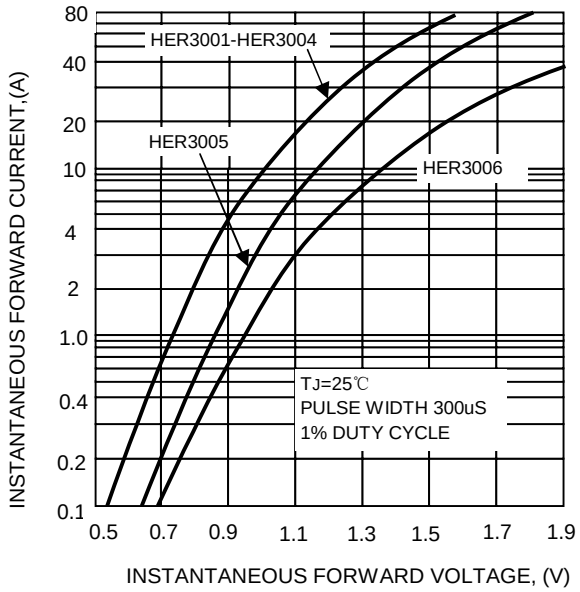


FIG.5-TYPICAL JUNCTION CAPACITANCE