

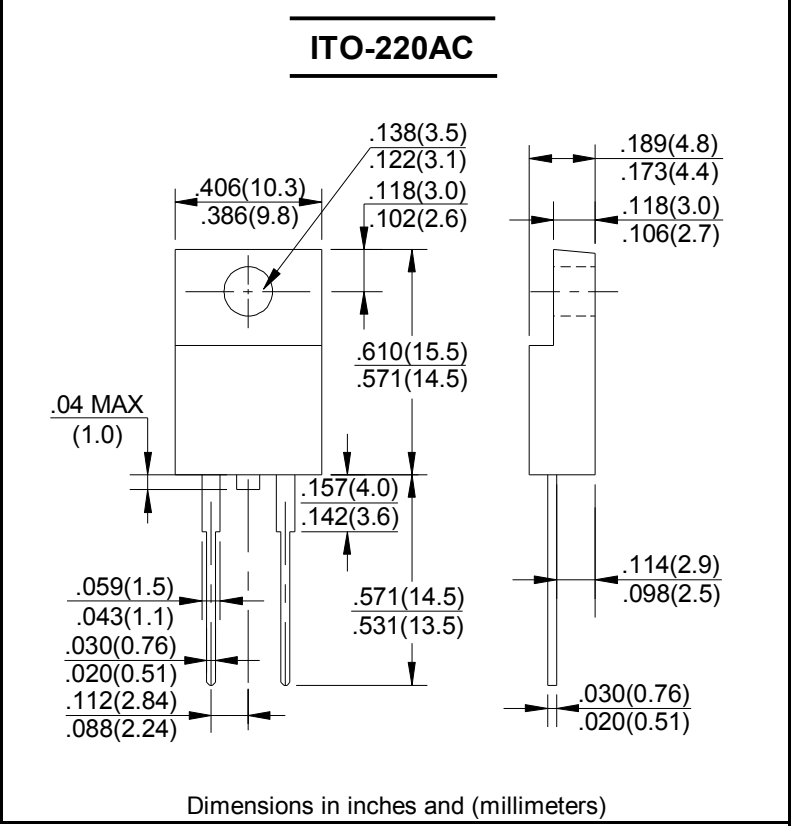
HIGH EFFICIENCY GLASS PASSIVATED RECTIFIERS	REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 8.0 Amperes
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FEATURES

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

MECHANICAL DATA

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	HERF 801	HERF 802	HERF 803	HERF 804	HERF 805	HERF 806	HERF 807	HERF 808	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA =75 °C	Io	8.0								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	300								A
Typical Thermal Resistance	RθJA	2.5								°C/W
Typical Junction Capacitance (Note2)	CJ	40								pF
Peak Instantaneous Forward Voltage at 8.0A DC	VF	1.0		1.3		1.7				V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C	IR	10								μA
Maximum Reverse Recovery Time(Note1)	TRR	60								nS
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150								°C

NOTES: 1. Measured with IF=0.5A, IR=1A, IRR=0.25A

2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.

FIG.1- TYPICAL FORWARD CURRENT DERATING CURVE

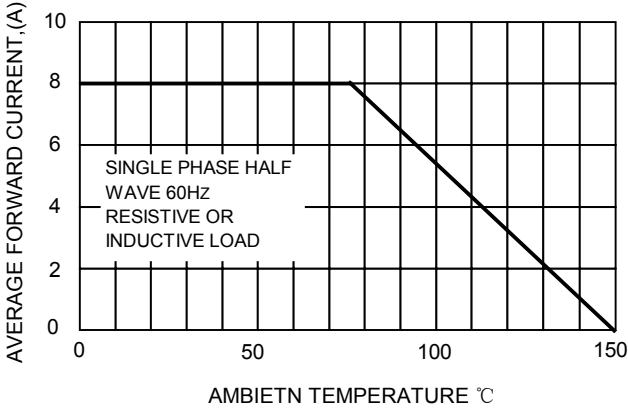


FIG.2-TYPICAL REVERSE CHARACTERISTICS

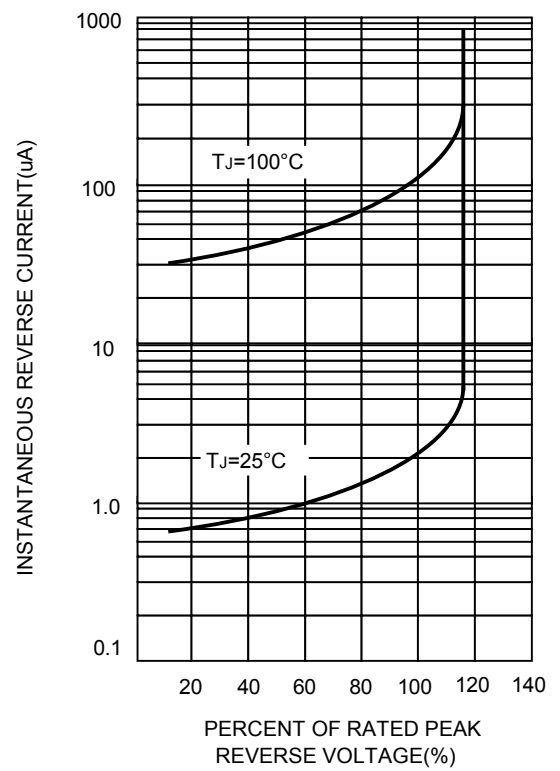


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

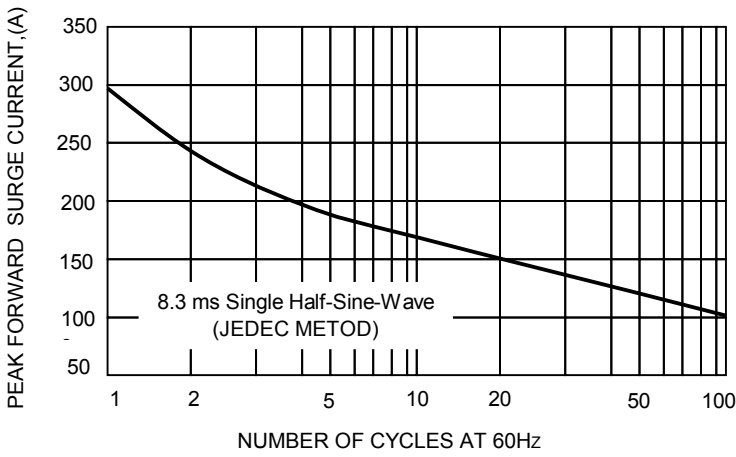


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

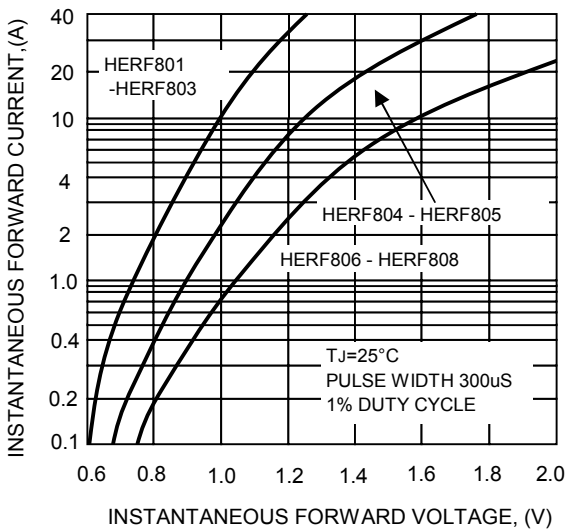


FIG.5-TYPICAL JUNCTION CAPACITANCE

