

## GLASS HIGH EFFICIENCY RECTIFIERS

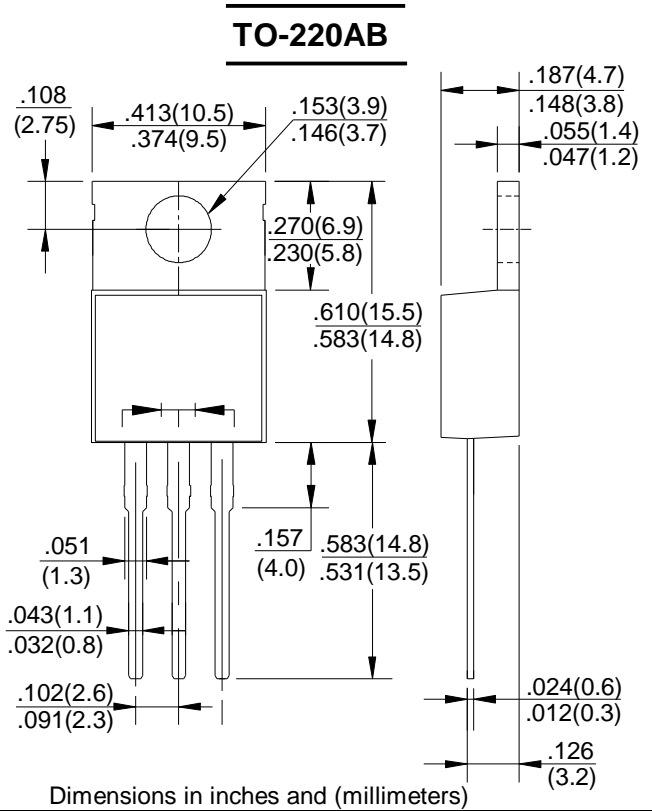
REVERSE VOLTAGE - **50 to 600**Volts  
FORWARD CURRENT - **16.0** Amperes

### FEATURES

- Low power loss; high efficiency
- Low forward voltage drop
- Low thermal resistance
- High current capability
- High speed switching
- High reliability

### MECHANICAL DATA

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



### 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	HER 1601CT	HER 1602CT	HER 1603CT	HER 1604CT	HER 1605CT	HER 1606CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	V
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	V
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	V
Maximum Average Forward Rectified Current @TA =75 °C	Io	16.0						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
Operating and Storage Temperature Range	TJ,TSTG	-65 to + 150						°C
Peak Forward Voltage at 8.0A DC	VF	1.1			1.3		1.7	V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C	IR	10			150			uA
Maximum Reverse Recovery Time(Note1)	TRR	60						nS

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

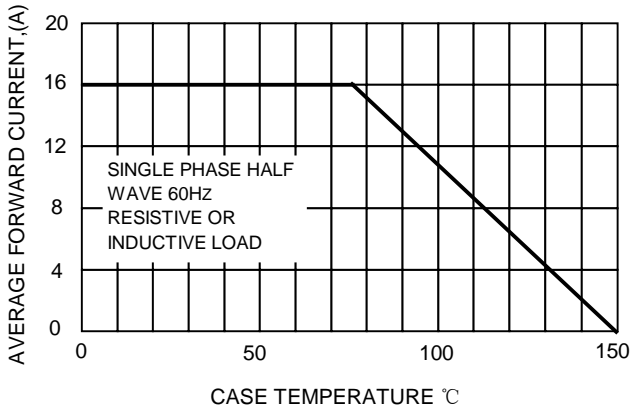


FIG.2-TYPICAL REVERSE CHARACTERISTICS

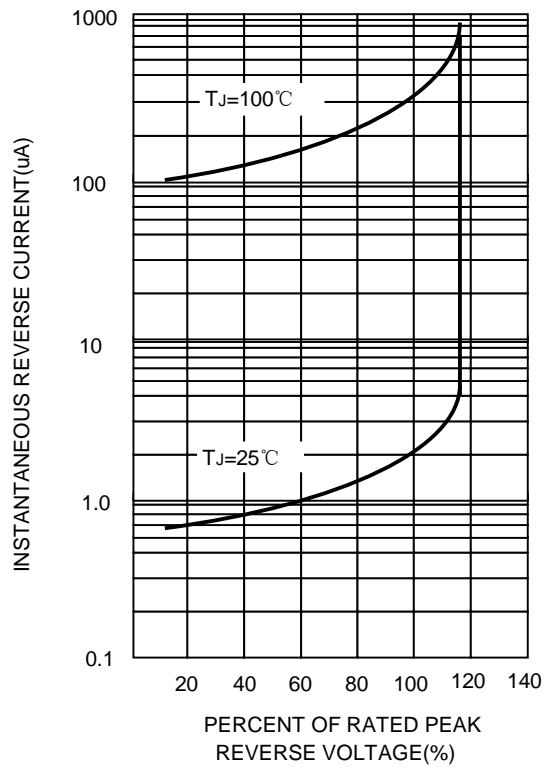


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

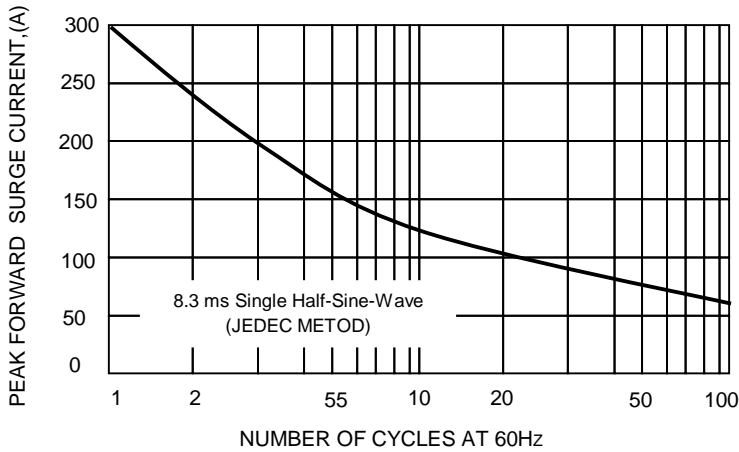


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

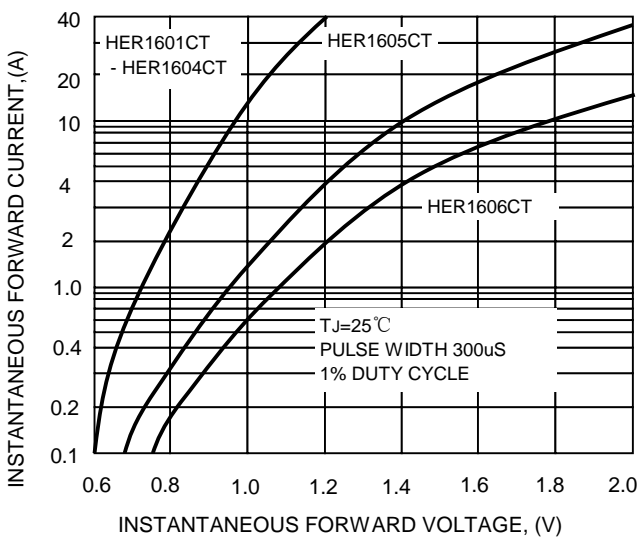


FIG.5-TYPICAL JUNCTION CAPACITANCE

