



# HERF1601CT thru HERF1608CT

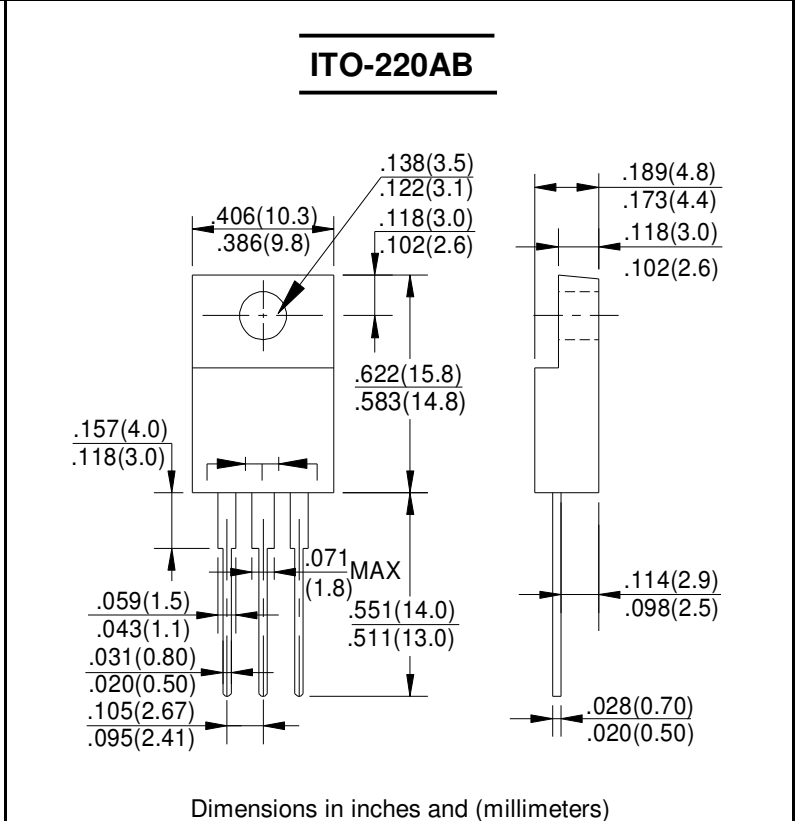
<b>HIGH EFFICIENCY GLASS PASSIVATED RECTIFIERS</b>	<b>REVERSE VOLTAGE - 50 to 1000Volts</b> <b>FORWARD CURRENT - 16.0 Amperes</b>
--	---

**FEATURES**

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

**MECHANICAL DATA**

- Case: ITO-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	HERF	HERF	HERF	HERF	HERF	HERF	HERF	HERF	UNIT
		1601CT	1602CT	1603CT	1604CT	1605CT	1606CT	1607CT	1608CT	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =75 °C	I <sub>O</sub>	16.0								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I <sub>FSM</sub>	125								A
Typical Thermal Resistance	R <sub>θJA</sub>	2.5								°C/W
Typical Junction Capacitance (Note2)	C <sub>J</sub>	40								pF
Peak Forward Voltage at 8.0A DC	V <sub>F</sub>	1.0		1.3		1.7				V
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =100°C	I <sub>R</sub>	10 150								μA
Maximum Reverse Recovery Time(Note1)	T <sub>RR</sub>	60								nS
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to + 150								°C

NOTES:1.Measured with I<sub>F</sub>=0.5A,I<sub>R</sub>=1A,I<sub>RR</sub>=0.25A  
 2.Measured at 1.0 MHZ and applied reverse voltage of 4.0VDC.

