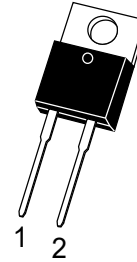


### Features

- Fred Chip Die Construction
- Hyper Fast Recovery Time
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Plastic Case Material has UL Flammability Classification Rating 94V-O

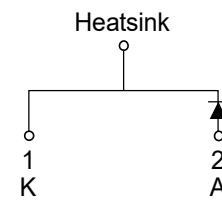
Package:TO-220AC



### Mechanical Data

- Case: ITO-220AC TYPE molded Plastic
- Terminals:Solderable per MIL-STD-202,Method 208
- Polarity: as marked
- Weight: 1.7 grams(approx)
- Lead Free:For RoHS/Lead Free Version, Green molding compound as per IEC61249 Std

Equivalent Circuit



### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>

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

Parameter Symbol	Symbol	EP1060F		Unit
Device marking code		EP1060F		
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	600		V
Maximum RMS voltage	V <sub>RMS</sub>	420		V
Maximum DC blocking voltage	V <sub>DC</sub>	600		V
Maximum average forward rectified current at T <sub>C</sub> =100°C	I <sub>F(AV)</sub>	10.0		A
Peak forward surge current:8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>fsm</sub>	100		A
Maximum instantaneous forward voltage at 10.0A (T <sub>a</sub> =25°C)	V <sub>F</sub>	Typ.	Max.	V
		1.90	2.30	
Maximum DC revers current T <sub>a</sub> =25°C	I <sub>R</sub>	5		uA
Maximum DC revers current T <sub>a</sub> =125°C		500		
Thermal Resistance Junction To Ambient	R <sub>thJA</sub>	70		°C/W
Thermal Resistance Junction To Case	R <sub>thJC</sub>	4.0		
Maximum Reverse Recovery Time (Note1)	T <sub>rr</sub>	Typ.	Max.	nS
		17.00	25.00	
Operating temperature range	T <sub>J</sub>	- 55 to + 175		°C
Storage temperature range	T <sub>STG</sub>	- 55 to + 175		°C

**Note:** 1.Measured With I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A,I<sub>RR</sub>=0.25A

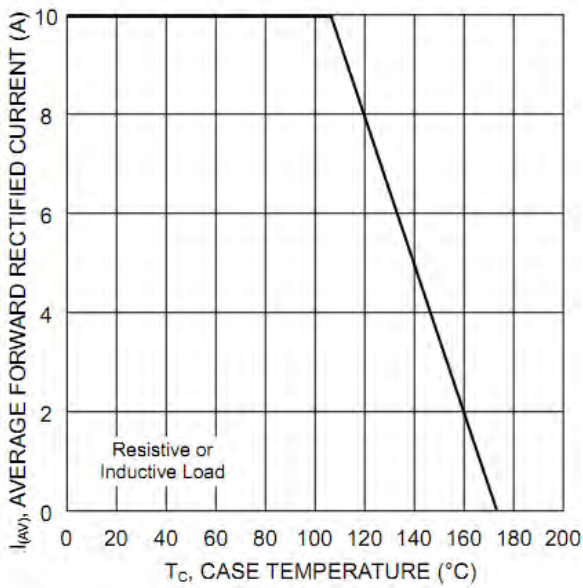


Fig. 1 Forward Current Derating Curve

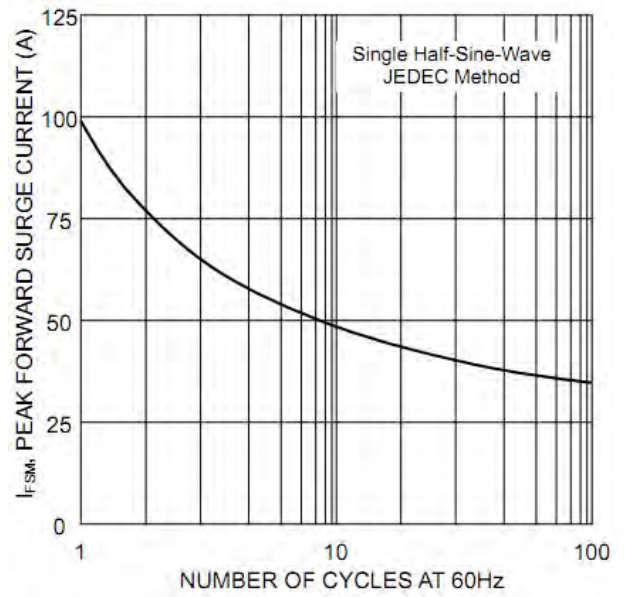


Fig. 2 Typical Forward Characteristics

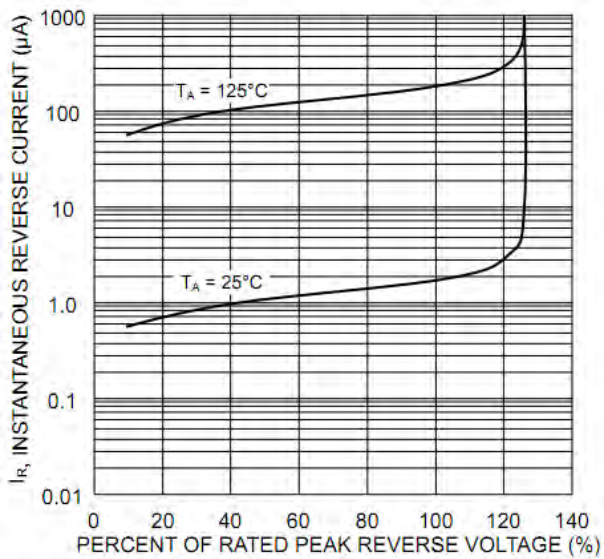


Fig. 3 Maximum Non-repetitive Peak Fwd Surge

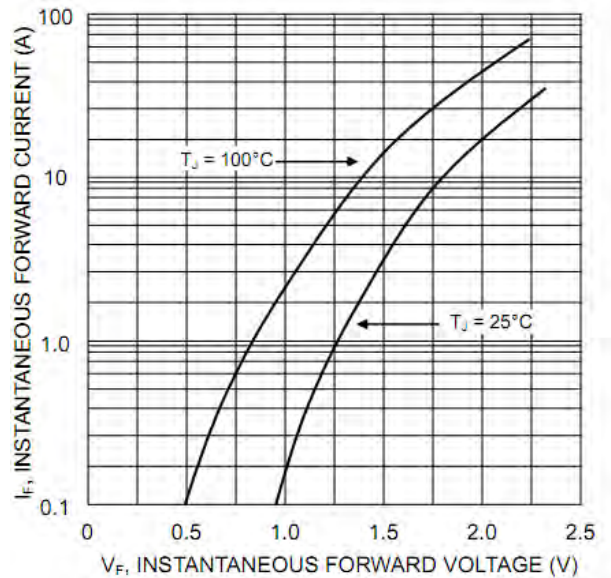
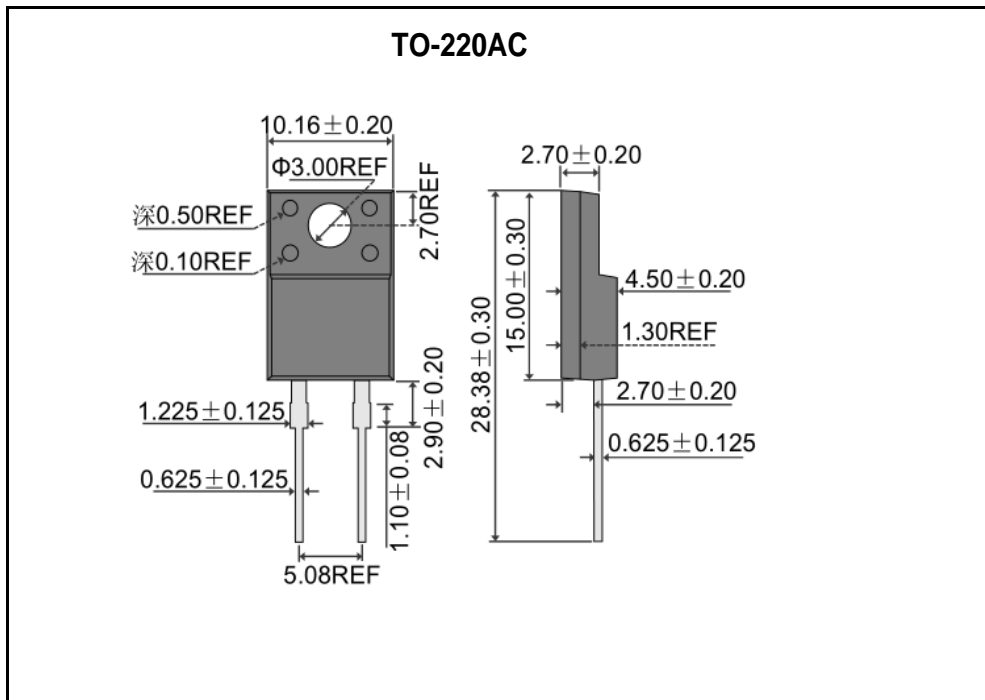


Fig. 4 Typical Reverse Characteristics

## Package Outline Dimensions



### BULK

Tube Size L x W x H (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
525 x 31 x 6	50	558 x 150 x 40	1,000	570 x 235 x 170	5,000	11.85

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