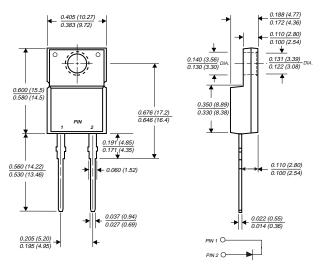
# **BY229X SERIES**

## **FAST SWITCHING PLASTIC RECTIFIER**

Reverse Voltage - 50 to 600 Volts Forward Current - 8.0 Amperes

#### ITO-220AC



Dimensions in inches and (millimeters)

### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ♦ Glass passivated chip junction
- ◆ Low leakage, high voltage
- High surge current capability
- Superfast recovery time, for high efficiency
- ♦ High temperature soldering guaranteed: 250°C, 0.25" (6.35mm) from case for 10 seconds

#### **MECHANICAL DATA**

Case: JEDEC ITO-220AC fully overmolded plastic body

over passivated chip

**Terminals:** Plated lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked Mounting Position: Any

Weight: 0.064 ounce, 1.81 grams Mounting Torque: 5 in. - lbs. max.

## **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

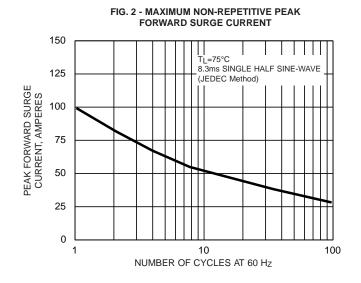
	SYMBOLS	BY229X -200	BY229X -400	BY229X -600	BY229X -800	UNITS
Maximum recurrent peak reverse voltage	VRRM	200	400	600	800	Volts
Maximum RMS voltage	VRMS	140	280	420	560	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	200	400	600	800	Volts
Maximum average forward rectified current at Tc=100°C	I <sub>(AV)</sub>	8.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100				Amps
Maximum instantaneous forward voltage at 20A	VF	1.85				Volts
Maximum DC reverse current T <sub>J</sub> =25°C at rated DC blocking voltage at T <sub>J</sub> =125°C	IR	10.0 300				μА
Maximum reverse recovery time (NOTE 1)	trr	145			ns	
Maximum recovered stored charge (NOTE 2)	Qrr	700			nC	
Maximum slope of reverse recovery current (NOTE 2)	dir/dt	60			A/μs	
Maximum thermal resistance (NOTE 3)	Rejc	4.8			°C/W	
Typical thermal resistance, junction to air	R⊝JA	20			°C/W	
Operating junction and storage temperature range	TJ, TSTG	-40 to +150			°C	
RMS Isolation voltage from terminals to heatsink with RH $\leq 30\%$	VisoL	4500 (NOTE 4) 3500 (NOTE 5) 1500 (NOTE 6)			Volts	

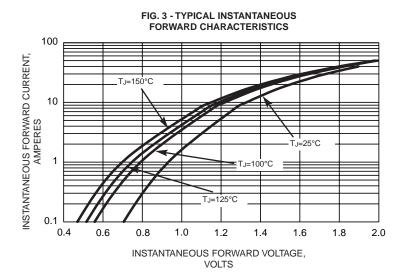
#### NOTES:

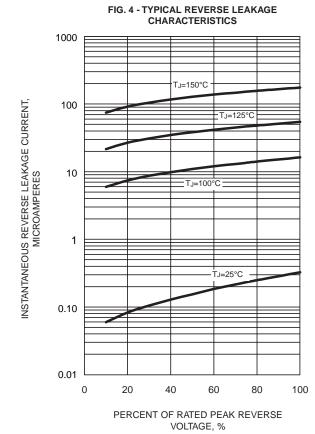
- (1) Reverse recovery test conditions: IF=1A, VR=30V, di/dt=50A/µs, Irr=10% IRM
- (2) Q<sub>rr</sub> test conditions: I<sub>F</sub>=2A, V<sub>R</sub>=30V, di/dt=20A/μs
- (3) Thermal resistance from junction to case mounted on heatsink with heatsink compound
- (4) Clip mounting, where lead does not overlap heatsink with 0.110" offset.
- (5) Clip mounting, where leads do overlap heatsink.
- (6) Screw mounting, where washer diameter is ≤ 4.9 mm (0.19").

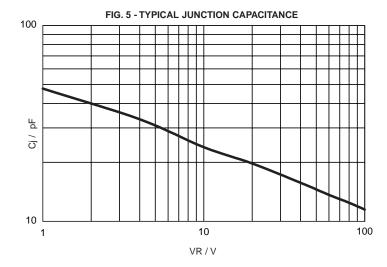


## **RATINGS AND CHARACTERISTIC CURVES BY229X SERIES**











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