

10A GLASS PASSIVATED ULTRAFAST RECTIFIER

Features

- Fred Chip Planar Construction
- Superfast 35nS and 50nS Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

Case: ITO-220A, Full Molded Plastic Terminals: Plated Leads Solderable per

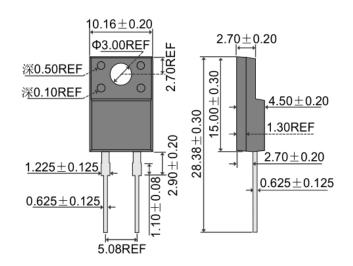
MIL-STD-202, Method 208 Polarity: See Diagram

Weight: 1.9 grams (approx.)

Mounting Position: Any Mounting Torque: 0.6 N.m Max.

Lead Free: For RoHS / Lead Free Version

ITO-220AC





Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

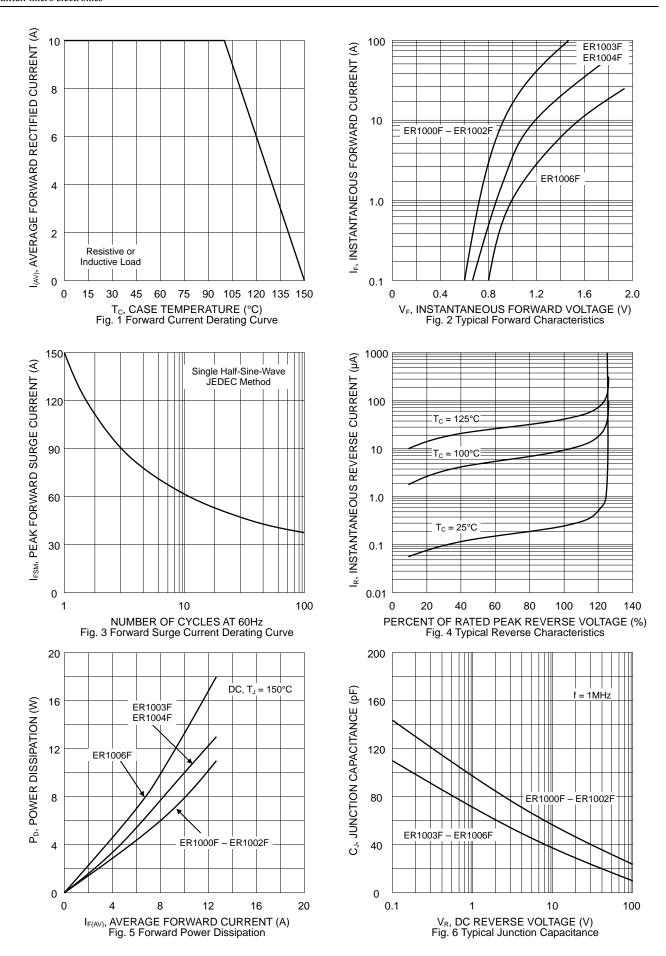
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	ER 1000F	ER 1001F	ER 1001AF	ER 1002F	ER 1003F	ER 1004F	ER 1006F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current @T _C = 100°C	lo	10						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	150					А		
Forward Voltage $@I_F = 10A$	VFM	0.95		1	.3	1.7	V		
	IRM	10 500						μΑ	
Reverse Recovery Time (Note 1)	trr	35				50		nS	
Typical Junction Capacitance (Note 2)	Сл	75 50				pF			
Thermal Resistance Junction to Ambient Thermal Resistance Junction to Case	R JA R JC	75 5.0						°C/W	
RMS Isolation Voltage, t = 1 min	Viso	1500						V	
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150						°C	

Note: 1. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

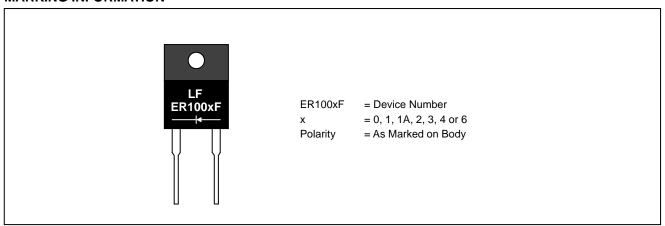








MARKING INFORMATION



PACKAGING INFORMATION

BULK

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

RECOMMENDED SCREW MOUNTING ARRANGEMENT

The full molded plastic package affords a major reduction of hardware as compared to a standard TO-220 package. However, precautions should be made in mounting procedure.

A conical washer should be used to apply proper force to the device. Screw should not be tightened with any type of air-forced torque or equipment that may cause crack on device package.

A layer of thermal grease or thermal pad in the interface will be considerably helpful for heat dissipation.

