

# ER1000FCT - ER1006FCT

#### 10A GLASS PASSIVATED DUAL ULTRAFAST RECTIFIER

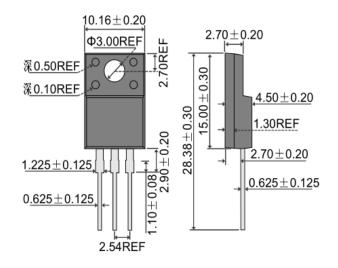
### Features

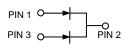
- Fred Chip Planar Construction
- Superfast 35nS and 50nS Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

### **Mechanical Data**

- Case: ITO-220, 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.
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## ITO-220AB





## Maximum Ratings and Electrical Characteristics @T\_=25°C unless otherwise specified

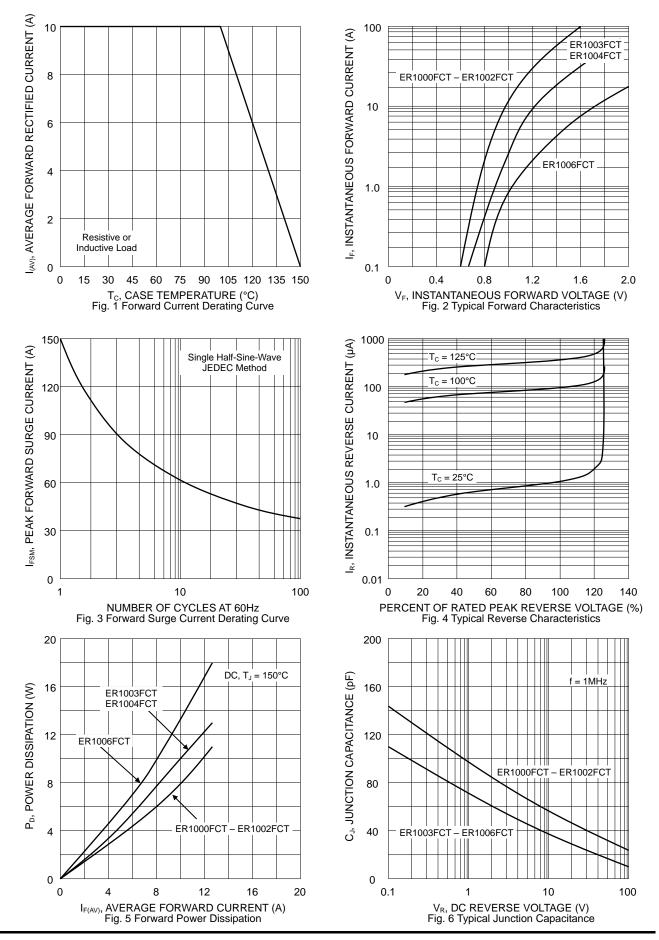
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	ER 1000FCT	ER 1001FCT	ER 1001AFCT	ER 1002FCT	ER 1003FCT	ER 1004FCT	ER 1006FCT	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 CurrentTotal De $@T_c = 100^{\circ}C$ Per Dio	10				10 5.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)					150				A
Forward Voltage per diode $@I_F = $	5.0А Уғм		0.	95		1	.3	1.7	V
Peak Reverse Current $@T_C =$ At Rated DC Blocking Voltage $@T_C = 1$	IRM				10 500				μA
Reverse Recovery Time (Note 1)	trr		3	5			50		nS
Typical Junction Capacitance (Note 2)	CJ		7	0			50		pF
Thermal Resistance Junction to Ambient per Thermal Resistance Junction to Case per did					62 4.5				°C/W
RMS Isolation Voltage, t = 1 min	Viso				1500				V
Operating and Storage Temperature Range	TJ, TSTG			-;	55 to +15	0			°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.

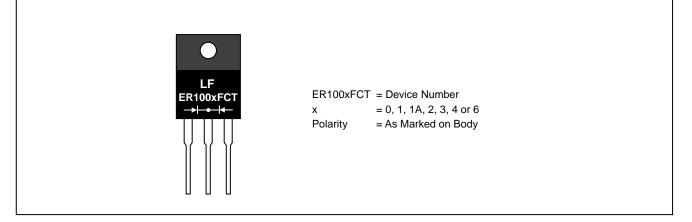


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#### MARKING INFORMATION



#### PACKAGING INFORMATION

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weig	
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)	
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

