

# ER800F – ER806F

#### 8.0A GLASS PASSIVATED ULTRAFAST RECTIFIER

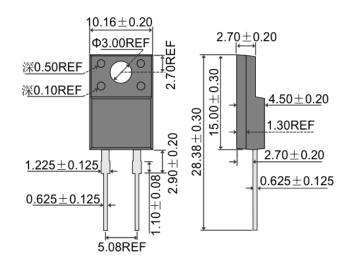
## **Features**

- 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

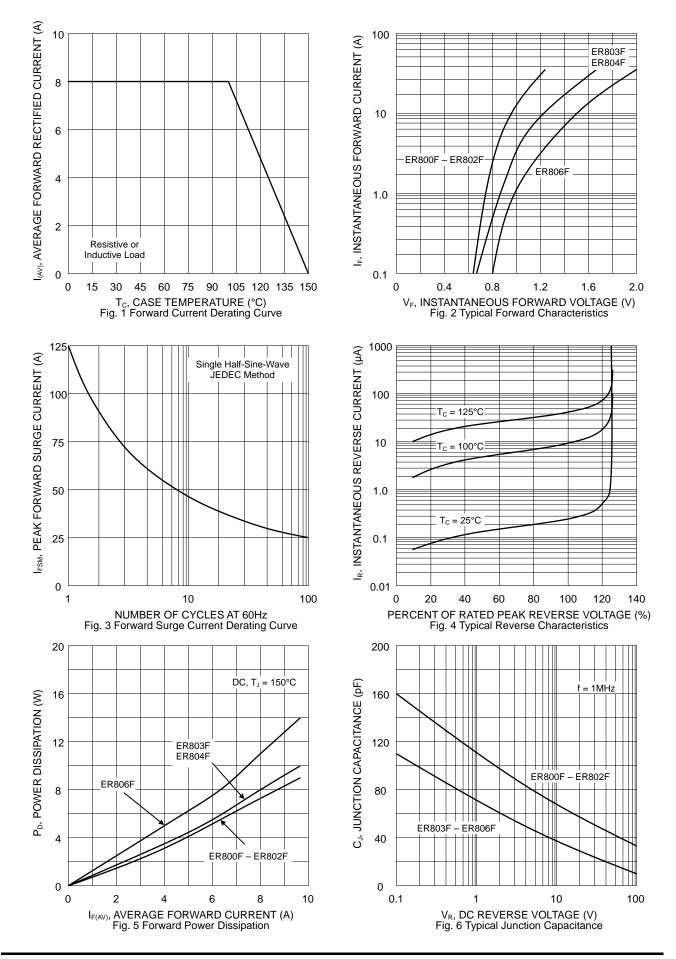
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	ER 800F	ER 801F	ER 801AF	ER 802F	ER 803F	ER 804F	ER 806F	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 $@T_c = 100^{\circ}C$	lo				8.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				125				A
Forward Voltage $@I_F = 8.0A$	Vfm		0.	95		1	.3	1.7	V
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 100^{\circ}C$	Iгм				10 500				μA
Reverse Recovery Time (Note 1)	trr		3	35			50		nS
Typical Junction Capacitance (Note 2)	CJ		8	35			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 +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.



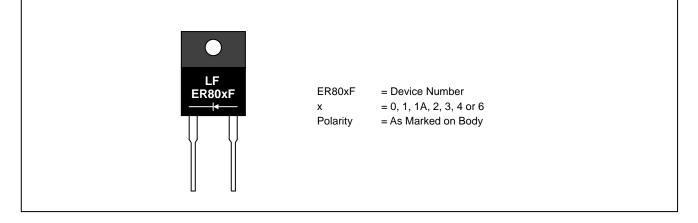
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Likun Micro-electroncs Technology Co.,LTD



#### MARKING INFORMATION



#### PACKAGING INFORMATION

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weigh
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**

