

ER1600FCT - ER1606FCT

16A GLASS PASSIVATED DUAL ULTRAFAST RECTIFIER

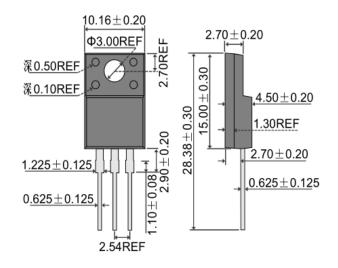
Features

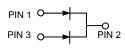
- Fred Chip Planar Construction
- Superfast 35nS and 50nS Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

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%.

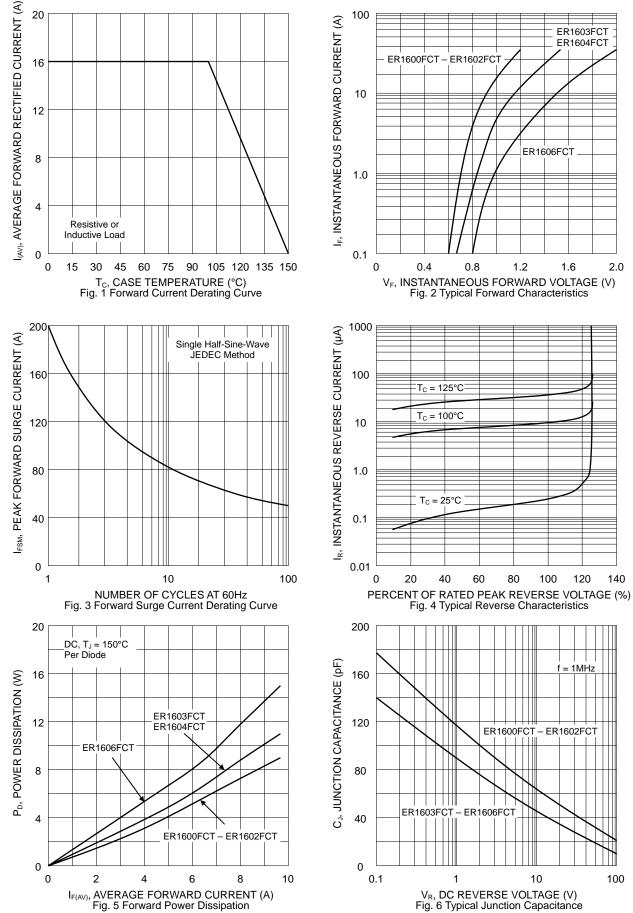
Characteristic	Symbol	ER 1600FCT	ER 1601FCT	ER 1601AFCT	ER 1602FCT	ER 1603FCT	ER 1604FCT	ER 1606FCT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	150	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output CurrentTotal Dev $@T_c = 100^{\circ}C$ Per Diode					16 8.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				200				A
Forward Voltage per diode $@I_F = 8.$	0A Vfm		0.	95		1	.3	1.7	V
Peak Reverse Current $@T_c = 2$ At Rated DC Blocking Voltage $@T_c = 100$	IDM.				10 500				μA
Reverse Recovery Time (Note 1)	trr		3	5			50		nS
Typical Junction Capacitance (Note 2)	CJ		8	5			60		pF
Thermal Resistance Junction to Ambient per of Thermal Resistance Junction to Case per diod					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.

Likun Micro-electroncs Technology Co.,LTD

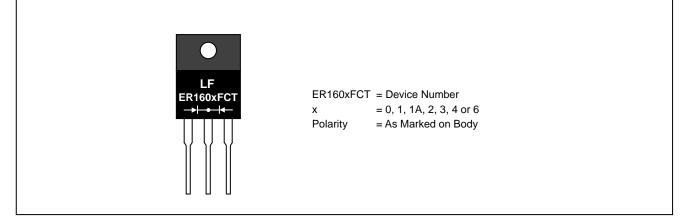


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MARKING INFORMATION



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

