

ER1000FCT – ER1006FCT



10A GLASS PASSIVATED DUAL SUPERFAST RECTIFIER

Features

- Glass Passivated Die Construction
- Super-Fast Switching
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

Case: ITO-220, Full Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

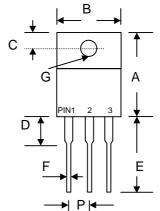
Polarity: See Diagram

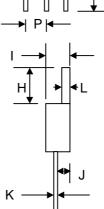
Weight: 2.24 grams (approx.)

Mounting Position: Any

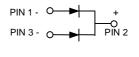
Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4





ITO-220					
Dim	Min	Max			
Α	14.60	15.40			
В	9.70	10.30			
С	2.55	2.85			
D	3.56	4.16			
Е	13.00	13.80			
F	0.30	0.90			
G	3.00 Ø	3.50 Ø			
Н	6.30	6.90			
I	4.20	4.80			
J	2.50	2.90			
K	0.36	0.80			
L	2.90	3.30			
Р	2.29	2.79			
All Dimensions in mm					



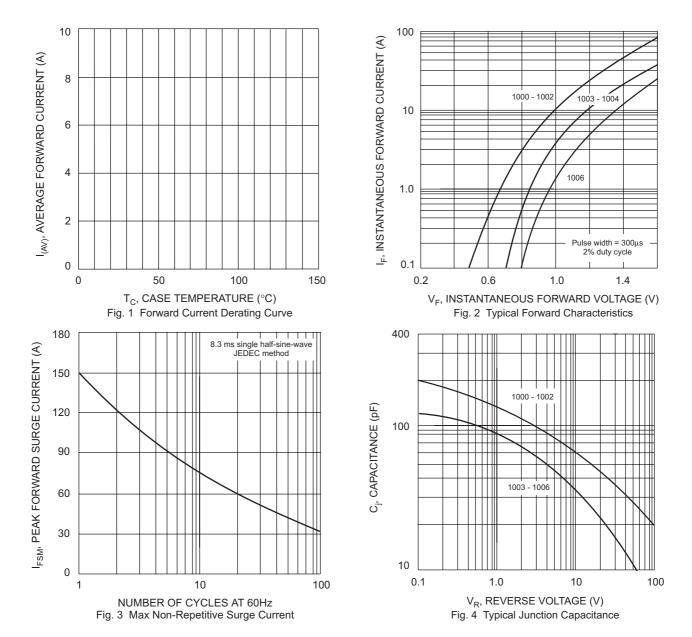
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

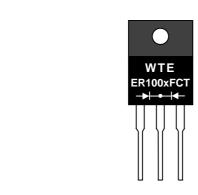
Characteristic	Symbol	ER 1000FCT	ER 1001FCT	ER 1001AFCT	ER 1002FCT	ER 1003FCT	ER 1004FCT	ER 1006FCT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	600	٧
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current @T _C = 100°C	lo	10						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150					Α		
Forward Voltage @I _F = 5.0A	VFM		0.	95		1.	.3	1.7	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IRM	10 400			μА				
Reverse Recovery Time (Note 1)	trr	35 50				nS			
Typical Junction Capacitance (Note 2)	Cj	80 50				pF			
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150					°C		

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



MARKING INFORMATION



WTE = Manufacturer's Logo
ER100xFCT = Device Number
x = 0, 1, 1A, 2, 3, 4 or 6
Polarity = As Marked on Body

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	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19.0

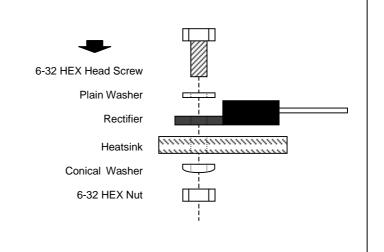
Note: 1. Anti-static tube, water clear color.

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.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
ER1000FCT	ITO-220	50 Units/Tube
ER1001FCT	ITO-220	50 Units/Tube
ER1001AFCT	ITO-220	50 Units/Tube
ER1002FCT	ITO-220	50 Units/Tube
ER1003FCT	ITO-220	50 Units/Tube
ER1004FCT	ITO-220	50 Units/Tube
ER1006FCT	ITO-220	50 Units/Tube

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, ER1000FCT-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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