

ER1000CT – ER1006CT

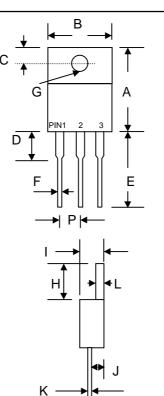
**10A GLASS PASSIVATED DUAL SUPERFAST RECTIFIER** 

## Features

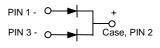
- Glass Passivated Die Construction
- Super-Fast Switching
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

#### **Mechanical Data**

- Case: TO-220, 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



TO-220					
Dim	Min	Max			
Α	13.90	15.90			
В	9.80	10.70			
С	2.54	3.43			
D	3.56	4.56			
Е	12.70	14.73			
F	0.51	0.96			
G	3.55 Ø	4.09 Ø			
Н	5.75	6.85			
I	4.16	5.00			
J	2.03	2.92			
К	0.30	0.65			
L	1.14	1.40			
Р	2.29	2.79			
All Dimensions in mm					



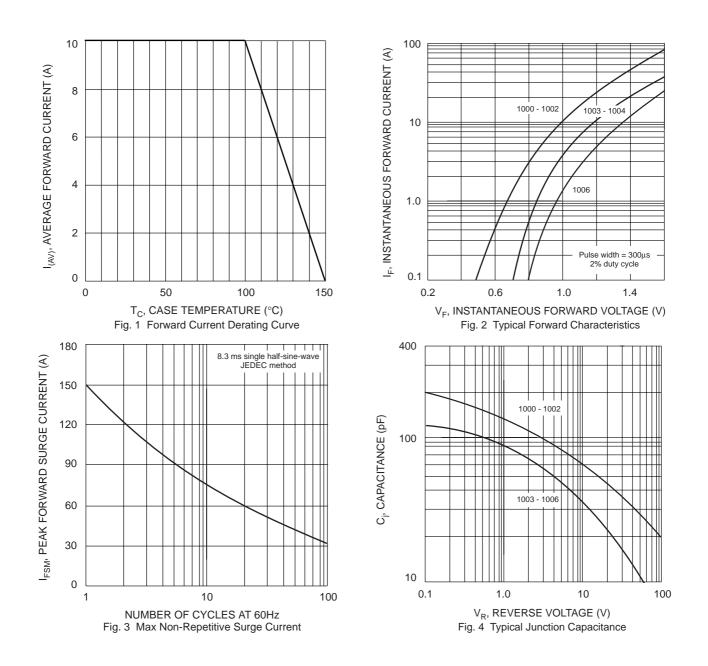
# Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

Characteristic	Symbol	ER 1000CT	ER 1001CT	ER 1001ACT	ER 1002CT	ER 1003CT	ER 1004CT	ER 1006CT	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 <sub>c</sub> = 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				A
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 $@T_A = 125^{\circ}C$	Iгм	10 400				μA			
Reverse Recovery Time (Note 1)	trr		З	35			50		nS
Typical Junction Capacitance (Note 2)	Cj	80 50				pF			
Operating and Storage Temperature Range	Tj, Tstg	-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
ER100xCT	= Device Number
x Polarity	= 0, 1, 1A, 2, 3, 4 or 6 = As Marked on Body

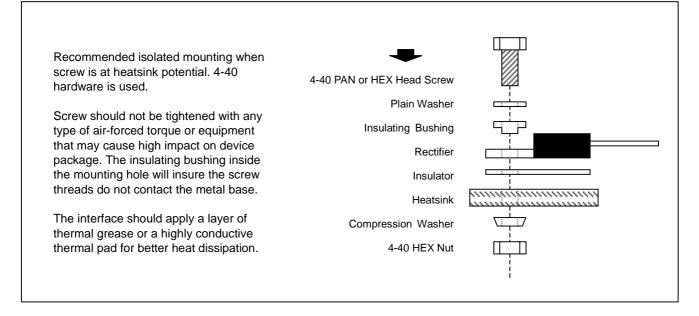
### PACKAGING INFORMATION

#### BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
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	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



### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
ER1000CT	TO-220	50 Units/Tube
ER1001CT	TO-220	50 Units/Tube
ER1001ACT	TO-220	50 Units/Tube
ER1002CT	TO-220	50 Units/Tube
ER1003CT	TO-220	50 Units/Tube
ER1004CT	TO-220	50 Units/Tube
ER1006CT	TO-220	50 Units/Tube

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, ER1000CT-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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