

# ER1600CT - ER1606CT

### **16A SUPER-FAST GLASS PASSIVATED RECTIFIER**

#### **Features**

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

#### **Mechanical Data**

Case: Molded Plastic

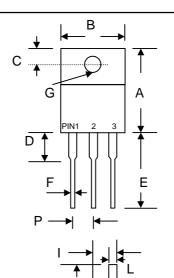
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

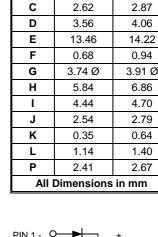
Polarity: See Diagram

Weight: 2.24 grams (approx.)

Mounting Position: Any

Marking: Type Number





TO-220

Max

15.1

10.5

Min

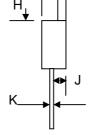
14.9

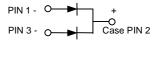
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Dim

Α

В





## 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 1600CT	ER 1601CT	ER 1601ACT	ER 1602CT	ER 1603CT	ER 1604CT	ER 1606CT	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> = 105°C	lo	16					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	125					А		
Forward Voltage @I <sub>F</sub> = 8.0A	VFM	0.95 1.3 1			1.7	V			
	lгм	10 500					μΑ		
Reverse Recovery Time (Note 1)	trr	35 50				nS			
Typical Junction Capacitance (Note 2)	Cj	80 60				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.

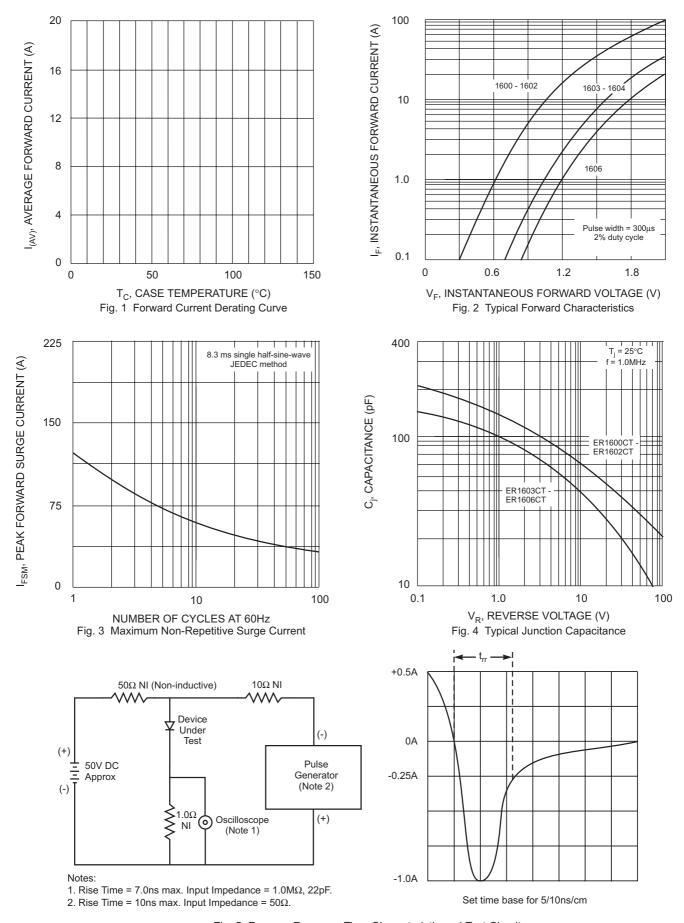


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity			
ER1600CT	TO-220	50 Units/Tube			
ER1601CT	TO-220	50 Units/Tube			
ER1601ACT	TO-220	50 Units/Tube			
ER1602CT	TO-220	50 Units/Tube			
ER1603CT	TO-220	50 Units/Tube			
ER1604CT	TO-220	50 Units/Tube			
ER1606CT	TO-220	50 Units/Tube			

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

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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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