

## ER1600CT~ER1606CT

### ISOLATION SUPERFAST RECOVERY RECTIFIER

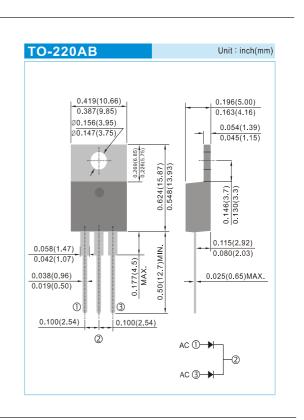
VOLTAGE 50 to 600 Volt CURRENT 16 Ampere

#### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
  Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- · Low forward voltage, high current capability
- High surge capacity.
- Super fast recovery times, high voltage.
- Epitaxial chip construction.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

- Case: TO-220AB Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Standard packaging: Any
- Weight: 0.067 ounces, 1.89 grams.



### MAXIMUM RATING AND ELECTRICAL CHARACTERISTICSS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	ER1600CT	ER1601CT	ER1601ACT	ER1602CT	ER1603CT	ER1604CT	ER1606CT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	V
Maximum Average Forward Current at T <sub>c</sub> =90°C	I <sub>F(AV)</sub>	16							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	125						А	
Maximum Forward Voltage at 8A	V <sub>F</sub>	0.95 1.3 1.7				1.7	V		
Maximum DC Reverse Current at Rated DC Blocking T_=25°C Voltage T_j=100°C	I <sub>R</sub>	1 500						μA	
Maximum Reverse Recovery Time (Note 2)	t <sub>rr</sub>	35						ns	
Typical Junction Capacitance (Note 1)	C」	62						pF	
Typical Thermal Resistance	$R_{_{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$	3						°C / W	
Operating and Storage Temperature Range	$\mathbf{T}_{J}, \mathbf{T}_{STG}$	-50 to +150							°C

NOTES :

1. Measured at 1 MHz and applied reverse voltage of 4 VDC.

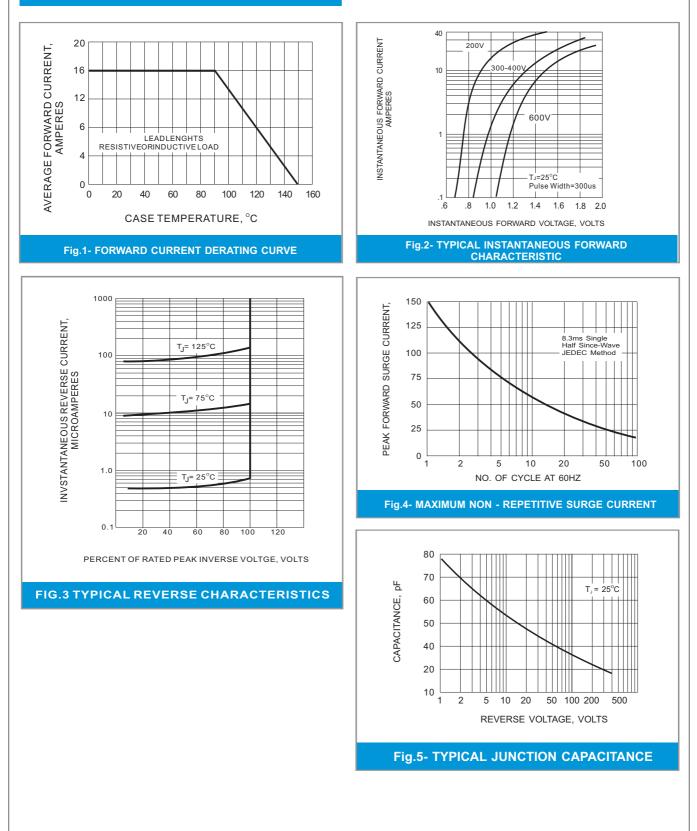
2. Reverse Recovery Test Conditions : I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, Irr=0.25A.

3. Both Bonding and Chip structure are available.

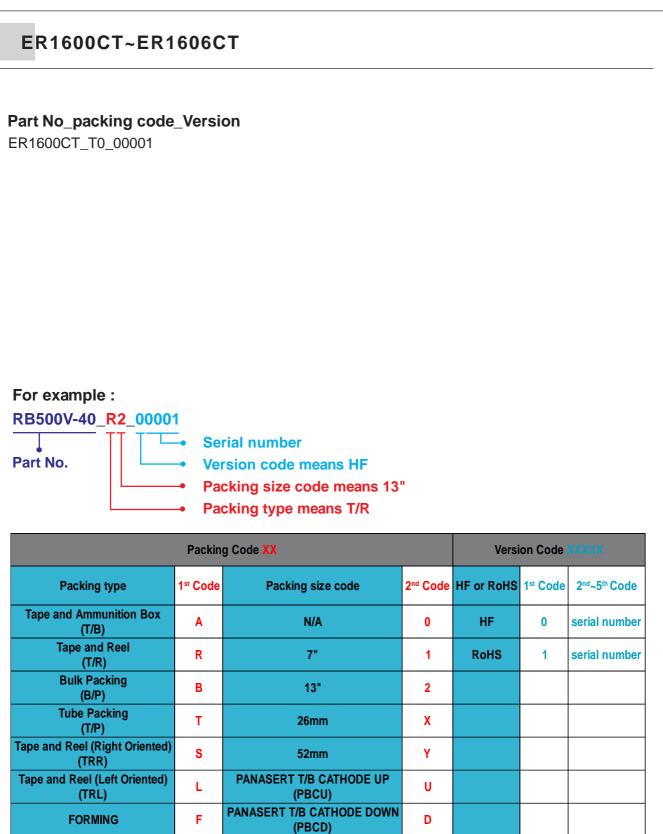


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### **RATING AND CHARACTERISTIC CURVES**











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