

Unit : inch(mm)

0.189(4.8)

0.165(4.2)

0.128(3.25) MIN

0.114(2.9)

0.098(2.5)

0.027(0.67)

-(2)

AC 3-

0.130(3.3)

0.114(2.9)

# ER1600FCT~ER1606FCT

### 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 voltge, 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: ITO-220AB Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.056 ounces, 1.6 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.

<u>ITO-22</u>0AB

0.112(2.85) 0.100(2.55)

0.055(1.4

0.039(1.0) 0.028(0.7) 0.019(0.5)

0.100(2.55)

0.039(1.0) 0.055(1.4)

0.406(10.3)

0.272(6.9)

248/6

15.4) 14.8)

0.606(1 0.583(1

0.543(13.8) 0.512(13.0)

0 177(4 5) 0 137(3 5)

0.100(2.55)

3

Ż

0.381(9.7)

Ø0.134(3.4)

0.118(3.0)

For capacitive load, derate current by 20%

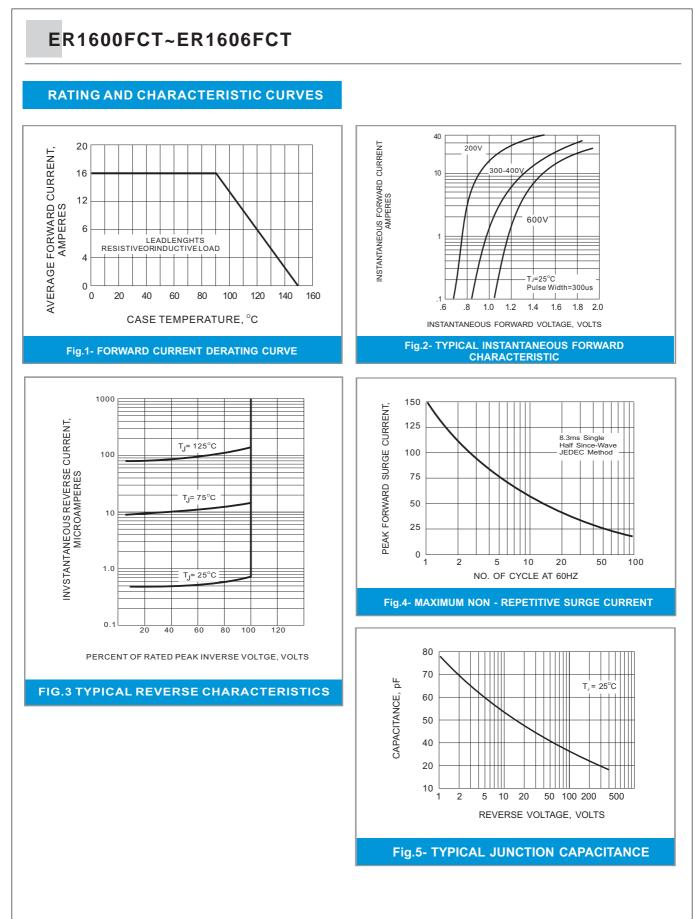
PARAMETER	SYMBOL	ER1600FCT	ER1601FCT	ER1601AFCT	ER1602FCT	ER1603FCT	ER1604FCT	ER1606FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	V
Maximum Average Forward Current at T <sub>c</sub> =90°C	I <sub>F(AV)</sub>	16							А
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 T <sub>J</sub> =25°C Rated DC Blocking VoltageT <sub>J</sub> =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							рF
Typical Thermal Resistance	$R_{_{ ext{ extbf{ exbf{ extbf{ extbf{ extbf{ extbf{ extbf{ extbf{ extbf{ extbf{ e$	3						°C / W	
Operating and Storage Temperature Range	$T_{J},T_{STG}$	-50 to +150						°C	

#### NOTES :

- 1. Measured at 1 MHz and applied reverse voltage of 4 VDC.
- 2. Reverse Recovery Test Conditions: I\_F=0.5A, I\_R=1A, Irr=0.25A.

3. Both Bonding and Chip structure are available.









## ER1600FCT~ER1606FCT

## Part No\_packing code\_Version

ER1600FCT\_T0\_00001

## For example :

## RB500V-40\_R2\_00001



Serial number
Version code means HF
Packing size code means 13"
Packing type means T/R

Packing Code XX					Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





## ER1600FCT~ER1606FCT

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