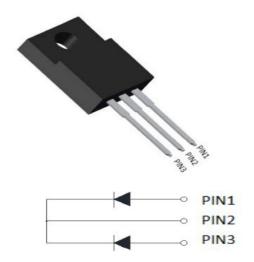


FEATURES

- 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.

For capacitive load, derate current by 20%

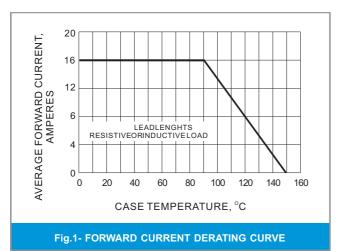
PARAMETER	SYMBOL	ER1600FCT	ER1601FCT	ER1601AFCT	ER1602FCT	ER1603FCT	ER1604FCT	ER1606FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	٧
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Current at T _c =90°C	I _{F(AV)}	16					А		
Peak Forward Surge Current, 8.3ms single half sinewave superimposed on rated load	I _{FSM}	125						А	
Maximum Forward Voltage at 8A	V _F	0.95 1.3 1.7			1.7	V			
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking VoltageT _J =100°C	I _R	1 500						μА	
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35					ns		
Typical Junction Capacitance (Note 1)	C _J	62					pF		
Typical Thermal Resistance	R _{eJC}	3					°C / W		
Operating and Storage Temperature Range	T_{J},T_{STG}	-50 to +150					°C		

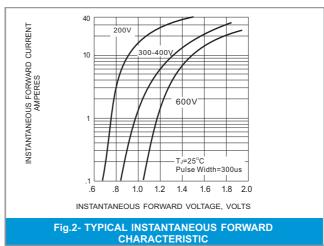
NOTES:

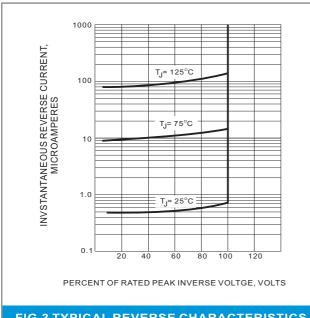
- 1. Measured at 1 MHz and applied reverse voltage of 4 VDC.
- 2. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1A, I_R =1A, I_R =0.25A.
- 3. Both Bonding and Chip structure are available.

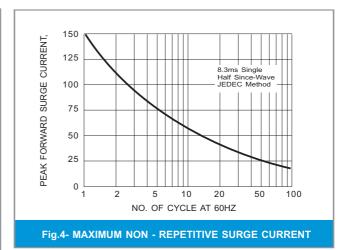


RATING AND CHARACTERISTIC CURVES

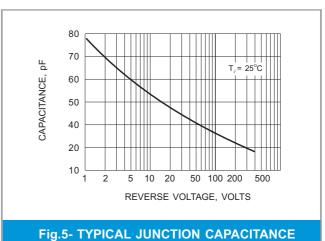










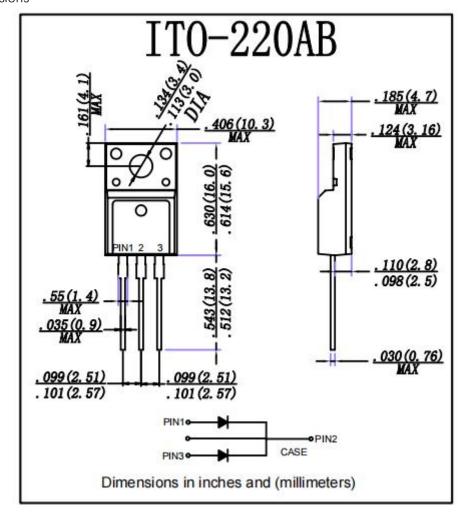




■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
ER1600FCT~ER1606FCT	ITO-220AB	50	1000	5000	Tube	

■ Outline Dimensions





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