



### **SUPERFAST RECOVERY RECTIFIERS**

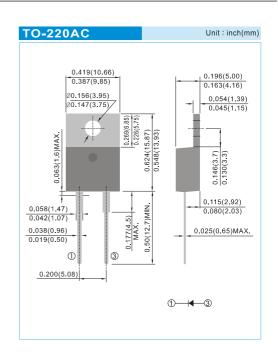
VOLTAGE 50 to 600 Volt CURRENT 8 Ampere

### **FEATURES**

- Superfast recovery times-epitaxial construction.
- · Low forward voltage, high current capability.
- · Hermetically sealed.
- Low leakage.
- High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### **MECHANICAL DATA**

- Case: Molded plastic, TO-220AC
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: As marking
- Weight: 0.067 ounces, 1.89 grams.



### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	ER800	ER801	ER801A	ER802	ER803	ER804	ER806	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	600	V
Maximum Average Forward Current at T <sub>c</sub> =75°C	I <sub>F(AV)</sub>	8							Α
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	125							Α
Maximum Forward Voltage at 8A (Note 1)	V <sub>F</sub>	0.95 1.3			1.7	٧			
Maximum DC Reverse Current at Rated DC Blocking $T_J = 25^{\circ}C$ Voltage $T_J = 100^{\circ}C$	I <sub>R</sub>	1 300							μА
Maximum Reverse Recovery Time (Note 1)	t <sub>rr</sub>	35							ns
Typical Junction Capacitance (Note 2)	CJ	65							pF
Typical thermal Resistance (Note 3)	R <sub>eJC</sub>	3						°C / W	
Operating Junction and Storage Temperature Range	$T_J,T_STG$	-55 to +150						°C	

### NOTES:

- 1. Pulse Test with PW=300μsec, 2% Duty Cycle.
- 2. Reverse Recovery Tset Conditions: I<sub>F</sub>=0.5A,I<sub>R</sub>=1A,Irr=0.25A
- 3. Mounted on P.C. Board with 14mm<sup>2</sup> (0.013mm thick) copper pad areas.





### **RATING AND CHARACTERISTIC CURVES**

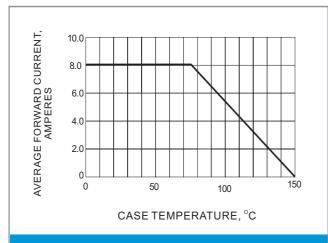


Fig.1-FORWARD CURRENT DERATING CURVE

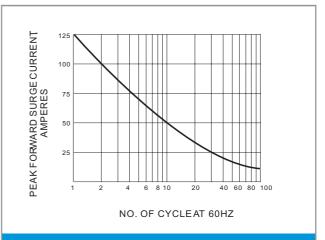


Fig.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

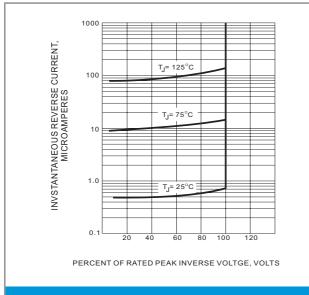


Fig.3-TYPICAL REVERSE CHARACTERISTICS

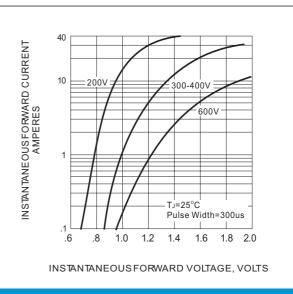


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





## Part No\_packing code\_Version

ER800\_T0\_00001

## For example:



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					





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