



SUPERFAST RECOVERY RECTIFIERS

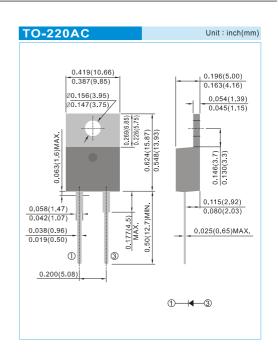
VOLTAGE 50 to 600 Volt CURRENT 8 Ampere

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	٧
Maximum RMS Voltage	V _{RMS}	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 _c =75°C	I _{F(AV)}	8							Α
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125							Α
Maximum Forward Voltage at 8A (Note 1)	V _F	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 _R	1 300						•	μА
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35							ns
Typical Junction Capacitance (Note 2)	CJ	65							pF
Typical thermal Resistance (Note 3)	R _{eJC}	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_F=0.5A,I_R=1A,Irr=0.25A
- 3. Mounted on P.C. Board with 14mm² (0.013mm thick) copper pad areas.





RATING AND CHARACTERISTIC CURVES

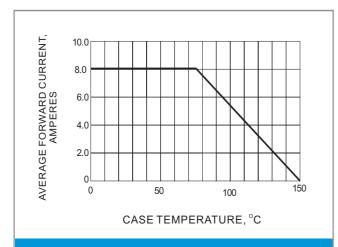


Fig.1-FORWARD CURRENT DERATING CURVE

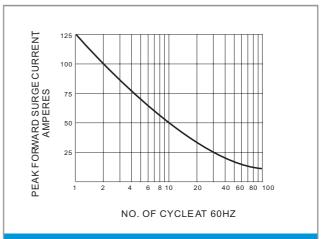


Fig.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

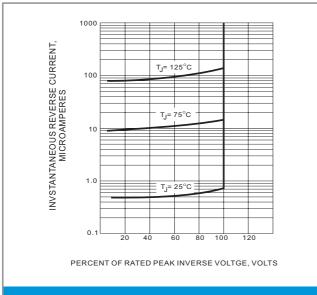


Fig.3-TYPICAL REVERSE CHARACTERISTICS

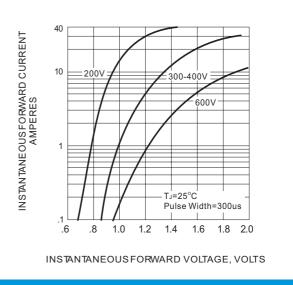


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





Part No_packing code_Version

ER800_T0_00001

For example:



Packing Code XX				Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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					





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties
 of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation.
 Customers are responsible in comprehending the suitable use in particular applications.
 Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by Panjit manufacturer:

Other Similar products are found below:

70HFR40 FR105 R0 RL252-TP 1N5397 1N4005-TR 1N4007-BP UFS120Je3/TR13 20ETS12S RRE02VS6SGTR MS306 A1N5404G-G CRF02(T5L,TEMQ) ACGRB207-HF CLH07(TE16L,Q) CLH03(TE16L,Q) 1N5395-TP UES1302 ACGRC307-HF ACEFC304-HF DZ-1380 85HFR60 40HFR60 70HF120 85HFR80 SCF7500 SM100 ACGRA4001-HF SKN70/08 NTE5819 NTE5827 NTE5828 NTE5911 NTE5915 NTE6104 NTE6163 NTE6164 NTE6165 NTE6364 TSD3G SET130312 NRVUS110VT3G UES1106 UES1306 NRVUS240VT3G D5FE60-5063 R4000GPS-TP D4015L56TP UES1306HR2 FX20K120 D20XB60-7101