



SUPERFAST RECOVERY RECTIFIERS

50 to 400 Volt CURRENT 8 Ampere

FEATURES

VOLTAGE

· 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 RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: Molded plastic, ITO-220AC
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: As marking
- Weight: 0.055 ounces, 1.56 grams.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

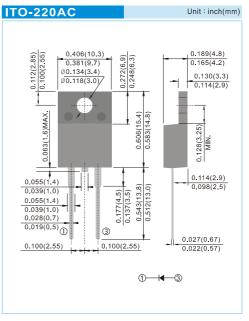
PARAMETER	SYMBOL	ER800F	ER801F	ER801AF	ER802F	ER803F	ER804F	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	v
Maximum RMS Voltage	V _{rms}	35	70	105	140	210	280	v
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	v
Maximum Average Forward Current at T _c =75°C	I _{F(AV)}	8						A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	125						A
Maximum Forward Voltage at 8A (Note 1)		0.95 1.3				v		
$\begin{array}{llllllllllllllllllllllllllllllllllll$		1 300					μA	
Maximum Reverse Recovery Time (Note 1)		35					ns	
Typical Junction Capacitance (Note 2)		65					pF	
Typical Thermal Resistance (Note 3)		3					°C / W	
Operating Junction and Storage Temperature Range		-55 to +150					°C	

NOTES :

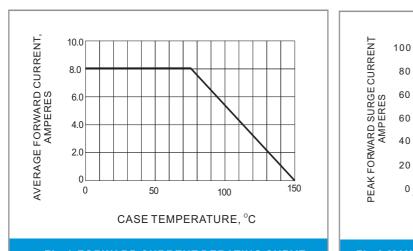
1. Pulse Test with PW=300µsec, 2% Duty Cycle.

2. Reverse Recovery Tset Conditions : $I_F=0.5A$, $I_R=-1A$, Irr=-0.25A

3. Mounted on P.C. Board with $14 \mbox{mm}^2$ (0.013mm thick) copper pad areas.







RATING AND CHARACTERISTIC CURVES

Fig.1-FORWARD CURRENT DERATING CURVE

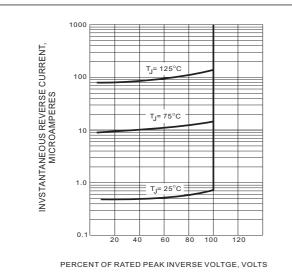
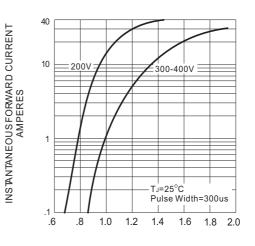


Fig.3-TYPICAL REVERSE CHARACTERISTICS



Fig.2-MAXIMUM NON-REPETITIVE SURGE CURRENT



INSTANTANEOUSFORWARD VOLTAGE, VOLTS

Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS 1





For example :

RB500V-40_R2_00001

Part No.

- 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 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)	A	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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