

ER800F~ER804F

SUPERFAST RECOVERY RECTIFIERS

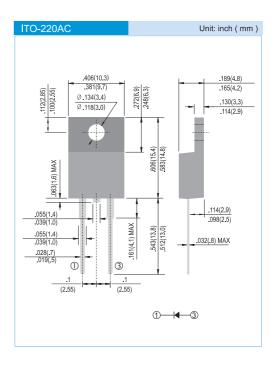
VOLTAGE 50 to 400 Volts CURRENT 8.0 Amperes

FEATURES

- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.
- 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 comply with EU RoHS 2002/95/EC directives

MECHANICALDATA

- Case: Molded plastic, ITO-220AC
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: As marking
- Weight: 0.055 ounces, 1.5615 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	ER800F	EB801E	ER801AF	EB802E	ER803F	ER804F	UNITS
	0 TWIDOL	LIIOOOI	Entoon	Encora	LIIOOZI	Entoosi	Entooti	
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	V
Maximum RMS Voltage		35	70	105	140	210	280	V
Maximum DC Blocking Voltage		50	100	150	200	300	400	V
Maximum Average Forward Current at T _c =75°C	I _{F(AV)}	8.0						A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	125						A
Maximum Forward Voltage at 8.0A (Note 1)	V _F	0.95			1.3		V	
Maximum DC Reverse Current T_=25 °C at Rated DC Blocking Voltage T_=100 °C	I _R	1.0 300						μA
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35			50		ns	
Typical Junction capacitance(Note 2)	C	65					рF	
Typical thermal Resistance (Note 3)	R _{ejc}	3.0					°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-55 to +150						°C

NOTES:

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

2. Reverse Recovery Tset Conditions:I_F=0.5A,I_R=1.0A,Irr=0.25A

3. Mounted on P.C. Board with 14mm2 (.013mm thick) copper pad areas.



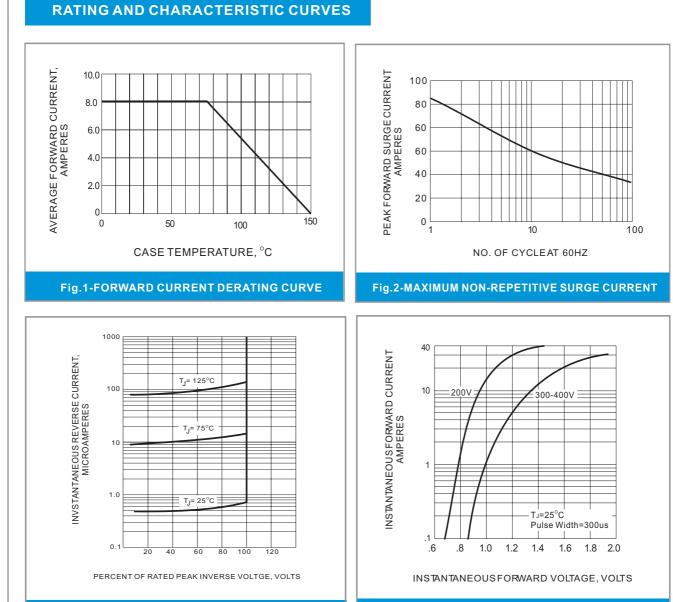
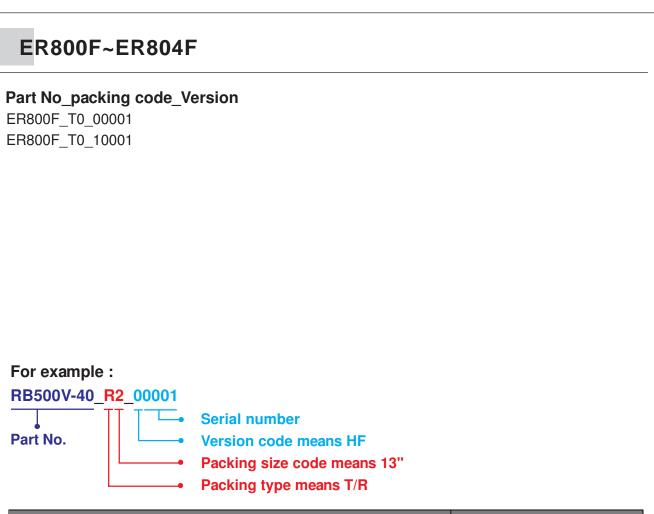


Fig.3-TYPICAL REVERSE CHARACTERISTICS







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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