

ER800F~ER804F

SUPERFAST RECOVERY RECTIFIERS

VOLTAGE 50 to 400 Volt **CURRENT** 8 Ampere

FEATURES

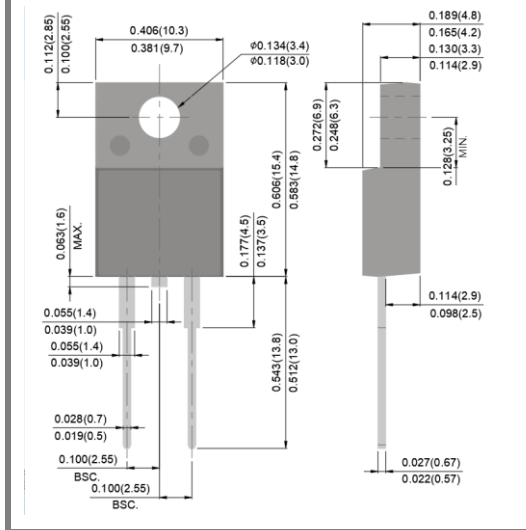
- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Hermetically sealed.
- Low leakage.
- High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Lead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

MECHANICAL DATA

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

ITO-220AC Dimension

Unit: inch(mm)



① ← ③

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	UNIT
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)	V _F	0.95				1.3		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C T _J =100°C	I _R	1 300						μA
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35						ns
Typical Junction Capacitance (Note 3)	C _J	65						pF
Typical Thermal Resistance (Note 4)	R _{θJC}	3						°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150						°C

NOTES :

1. Pulse Test with $PW=300\mu sec$, 2% Duty Cycle.
2. Reverse Recovery Test Conditions : $I_F=0.5A, I_R=1A, I_{rr}=0.25A$.
3. Measured at 1MHz and applied reverse voltage of $V_R=4V$.
4. Mounted on P.C. Board with $14mm^2$ (0.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

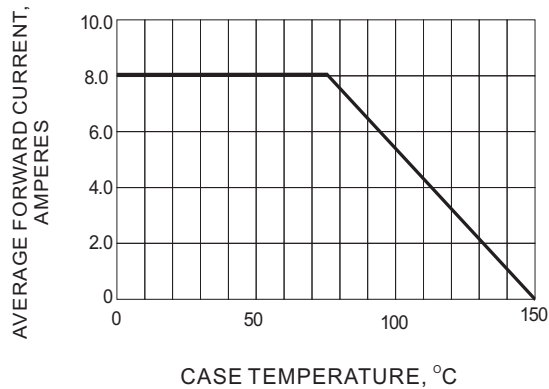


Fig.1-FORWARD CURRENT DERATING CURVE

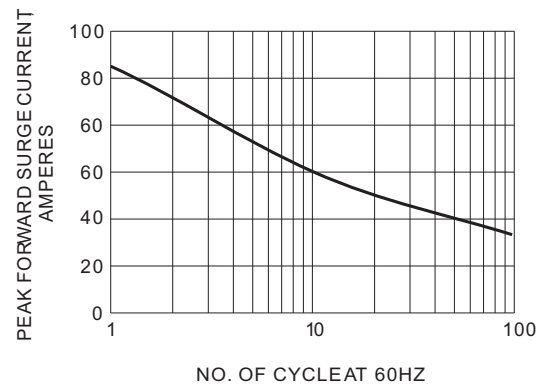


Fig.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

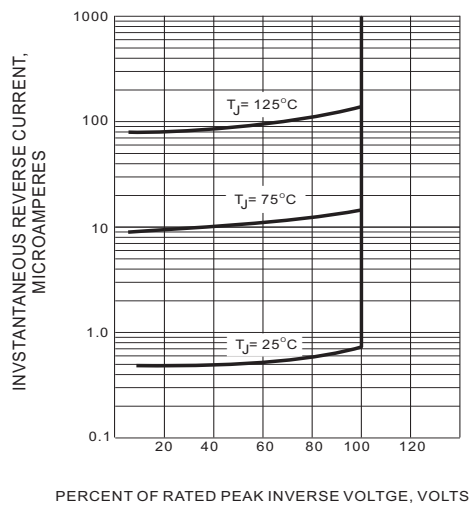


Fig.3-TYPICAL REVERSE CHARACTERISTICS

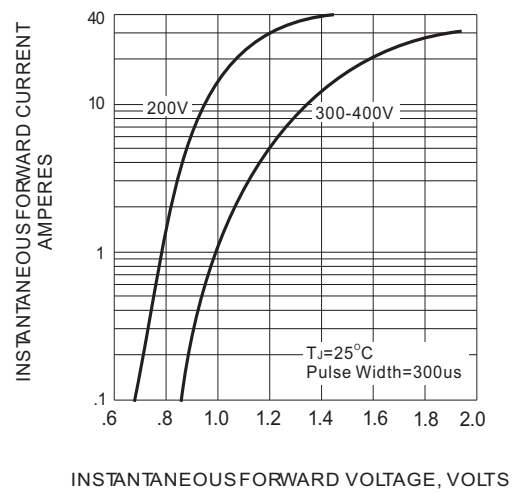


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
ER800F	ITO-220AC	50pcs / Tube	ER800F
ER801F	ITO-220AC	50pcs / Tube	ER801F
ER801AF	ITO-220AC	50pcs / Tube	ER801AF
ER802F	ITO-220AC	50pcs / Tube	ER802F
ER803F	ITO-220AC	50pcs / Tube	ER803F
ER804F	ITO-220AC	50pcs / Tube	ER804F

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