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ER800 THRU ER804

SUPERFAST RECOVERY RECTIFIERS VOLTAGE - 50 to 400 Volts CURRENT - 8.0 Amperes

FEATURES

Plastic package has Underwriters Laboratory

Flammability Classification 94V-O utilizing

Flame Retardant Epoxy Molding Compound

- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency
- Low forward voltage, high current capability •
- High surge capacity
- Super fast recovery times, high voltage
- Epitaxial chip construction

MECHANICAL DATA

Case: TO-220AC molded plastic

Terminals: Lead, solderable per MIL-STD-202, Method 208

Polarity: As marked

Weight: 0.08 ounces, 2.24 grams and 0150 cons

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS WWW.DZSC.CO

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, Resistive or inductive load.

For capacitive load, derate current by 20%.

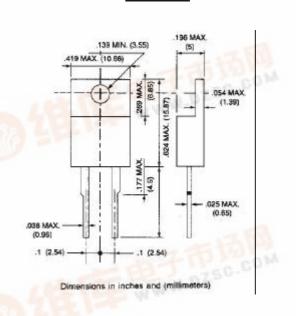
	ER800	ER801	ER801A	ER802	ER803	ER804	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	150	200	300	400	V
Maximum RMS Voltage	35	70	105	140	210	320	V
Maximum DC Blocking Voltage	50	100	150	200	300	400	V
Maxi <mark>mum Average F</mark> orward Rectified Curr <mark>ent</mark> at T _c =100	8.0						A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	125						A
Maximum Forward Voltage at 8.0A per element	0.95 1.30					V	
Maximum DC Reverse Current at T _a =25 DC Blocking Voltage per element T _a =125	10 500						A
Typical Junction capacitance (Note 1)	62						РF
Maximum Reverse Recovery Time(Note 2)	35 50						ns
Typical Junction Resistance(Note 3) R JC	3.0						/W
Operating and Storage Temperature Range T _J	-55 to +150						

NOTES:

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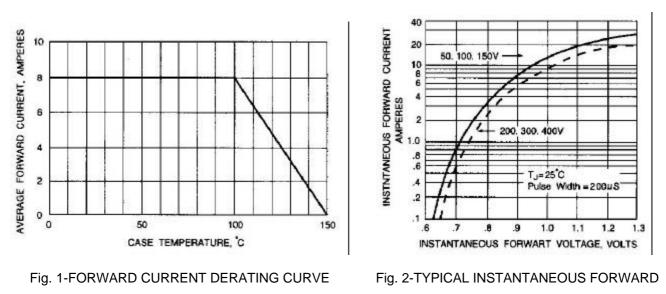
Measured at 1 MHz and applied reverse voltage of 4.0 VDC

Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, Irr=.25A

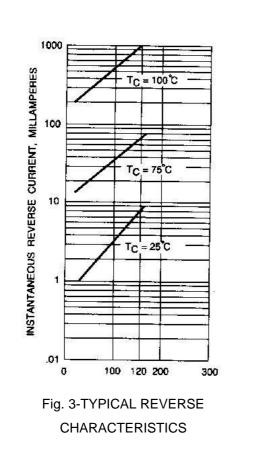


TO-220AC

3. Thermal resistance junction to CASE RATING AND CHARACTERISTIC CURVES ER800 THRU ER804



CHARACTERISTIC



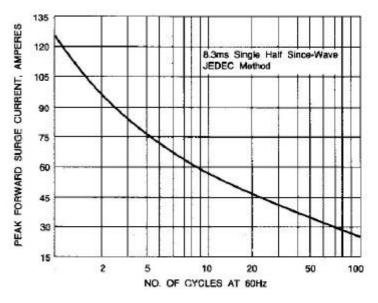


Fig. 4-MAXIMUM NON-REPETITIVE SURGE CURRENT

