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ER1600 THRU ER1604

SUPERFAST RECOVERY RECTIFIERS VOLTAGE - 50 to 400 Volts CURRENT - 16.0 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
- Dual rectifier (Epitaxial chip) construction

MECHANICAL DATA

Case: TO-220AB molded plastic

Terminals: Leads, 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

Ratings at 25 ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

	ER1600	ER1601	ER1601A	ER1602	ER1603	ER1604	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
Maximum Average Forward Rectified Current at Tc=90	16.0						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					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)	85						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	-55 to +150						

NOTES:

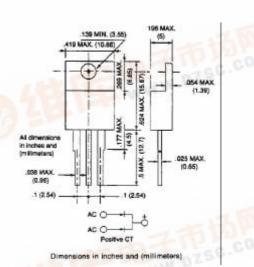
df.dzsc.com

2.

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC

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

Thermal-resistance junction to CASE



TO-220AB

RATING AND CHARACTERISTIC CURVES ER1600 THRU ER1604

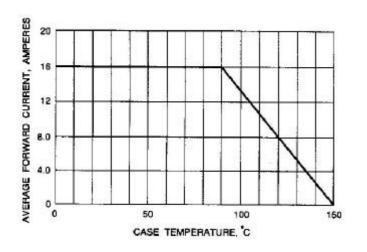


Fig. 1-FORWARD CURRENT DERATING CURVE

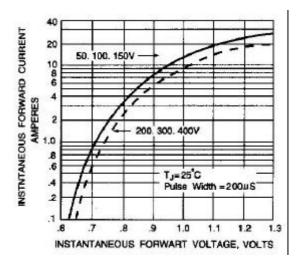


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

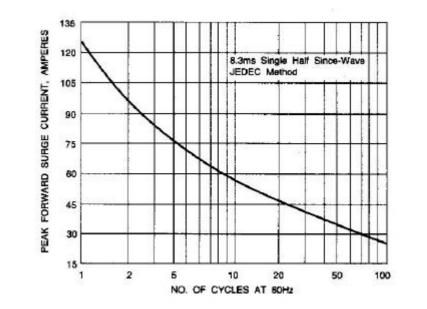


Fig. 4-MAXIMUM NON-REPETITIVE SURGE CURRENT

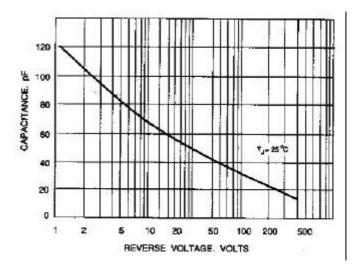


Fig. 5-TYPICAL JUNCTION CAPACITANCE

