ER1000F THRU ER1004F

ISOLATION SUPERFAST RECOVERY RECTIFIERS VOLTAGE - 50 to 400 Volts CURRENT - 10.0 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: ITO-220AC full molded plastic package

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

Polarity: As marked Weight: 0.08 ounces, 2.24 grams WW. DIEGO DE

ITO-220AC

Dimensions in inches and (millimeters)

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%

ER1000F	ER1001F	ER1001AF	ER1002F	ER1003F	ER1004F	UNITS
50	100	150	200	300	400	V
35	70	105	140	210	320	V
50	100	150	200	300	400	V
10.0					A	
150 EE TO 150.C					Α	
0.95			1.30		V	
10 500						A
62						₽F
35				5	0	ns
3.0						/W
-55 to +150						
	50 35	50 100 35 70 50 100	50 100 150 35 70 105 50 100 150 10 15 0.95	50 100 150 200 35 70 105 140 50 100 150 200 10.0 150 0.95 10 500 62 35 3.0	50 100 150 200 300 35 70 105 140 210 50 100 150 200 300 150 150 10 500 62 35 5 3.0 5	50 100 150 200 300 400 35 70 105 140 210 320 50 100 150 200 300 400 150 10 500 62 35 3.0

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

Thermal resistance junction to CASE RATING AND CHARACTERISTIC CURVES ER1000F THRU ER1004F

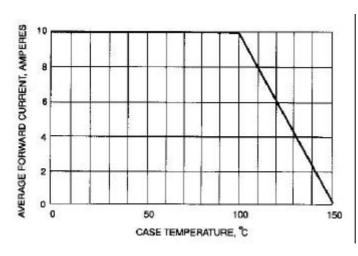


Fig. 1-FORWARD CURRENT DERATING CURVE

Fig. 2-TYPICAL INSTANTANEOUS FORWARD

CHARACTERISTIC

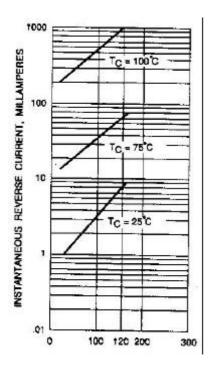


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

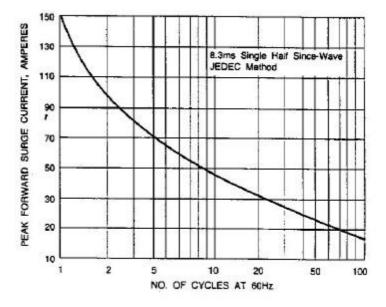


Fig. 4-MAXIMUM NON-REPETITIVE SURGE CURRENT

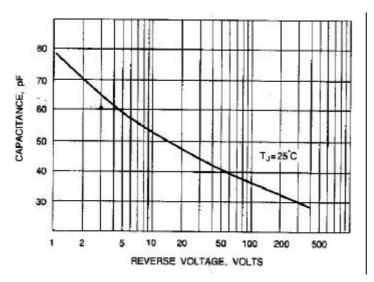


Fig. 5-TYPICAL JUNCTION CAPACITANCE