ER500 THRU ER506

SUPERFAST RECOVERY RECTIFIERS **VOLTAGE - 50 to 600 Volts CURRENT - 5.0 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

MECHANICAL DATA

Case: Molded plastic, DO-201AD

Terminals: Axial leads, solderable to MIL-STD-202,

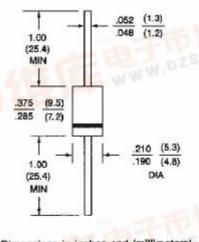
Method 208

WWW.DZSC.COM Polarity: Color Band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.12 grams

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

ER500	ER501	ER501A	ER502	ER503	ER504	ER506	UNITS
50	100	150	200	300	400	600	V
35	70	105	140	210	320	420	V
50	100	150	200	300	400	600	V
5.0						Α	
							100
						45 W.	WY
			150.0		22-1	Water.	Α
							37 6
					W. W. T.	1.697	
.95			1.25		1.7	V	
5.0						Α	
F-177	177						
300						Α	
J.z.							
35.0						ns	
45						₽F	
25.0						/W	
-55 to +150							
	50 35	50 100 35 70 50 100	50 100 150 35 70 105 50 100 150	50 100 150 200 35 70 105 140 50 100 150 200 5.0 150.0 .95 .95 .95 .95 .95 .95	50 100 150 200 300 35 70 105 140 210 50 100 150 200 300 5.0 150.0 .95 1 300 35.0 45 25.0	50 100 150 200 300 400 35 70 105 140 210 320 50 100 150 200 300 400 5.0 150.0 .95 1.25 .95 300 45 25.0	50 100 150 200 300 400 600 35 70 105 140 210 320 420 50 100 150 200 300 400 600 5.0 150.0 .95 1.25 1.7 5.0 300 45 25.0

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

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted RATING AND CHARACTERISTIC CURVES

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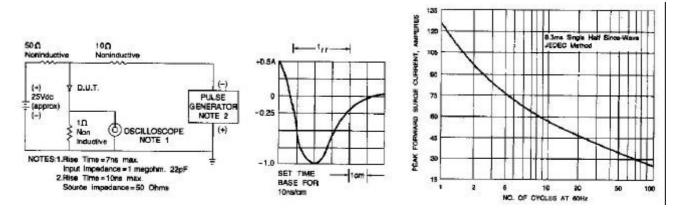
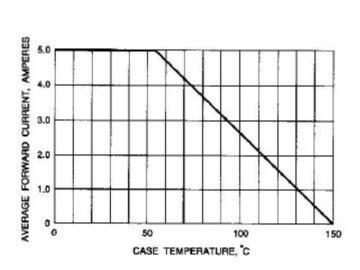


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC

AND TEST CIRCUIT DIAGRAM

Fig. 2- MAXIMUM AVERAGE FORWARD CURRENT RATING



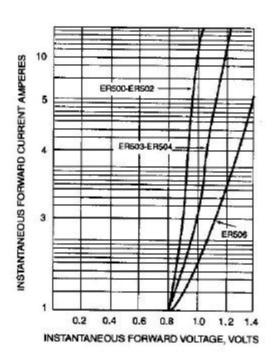
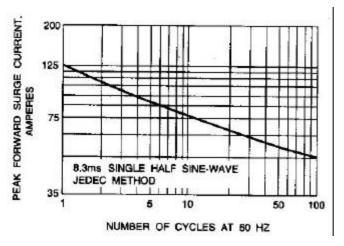


Fig. 3- MAXIMUM AVERAGE FORWARD CURRENT RATING Fig. 4-FORWARD CURRENT DERATING CURVE





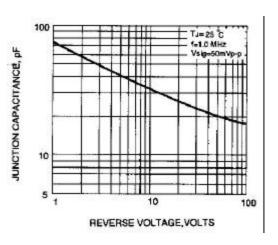


Fig. 6-TYPICAL JUNCTION CAPACITANCE