ER300 THRU ER306

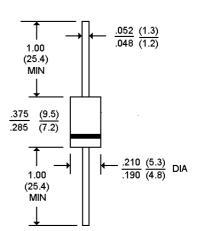
SUPERFAST RECOVERY RECTIFIERS VOLTAGE - 50 to 600 Volts CURRENT - 3.0 Amperes

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 Polarity: Color Band denotes cathode end Mounting Position: Any Weight: 0.04 ounce, 1.12 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz

ER300	ER301	ER301A	ER302	ER303	ER304	ER306	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
3.0						A	
125.0						A	
.95 1.25 1.7					V		
5.0						£g A	
300						£g A	
35.0						ns	
35						₽F	
20.0						¢J\W	
-55 to +150						¢J	
	50 35	50 100 35 70 50 100	50 100 150 35 70 105 50 100 150 .95	50 100 150 200 35 70 105 140 50 100 150 200 3.0 3.0 3.0 .95 5.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35	50 100 150 200 300 35 70 105 140 210 50 100 150 200 300 3.0 3.0 3.0 125.0 .95 1. 5.0 300 300 35.0 35 20.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	50 100 150 200 300 400 600 35 70 105 140 210 320 420 50 100 150 200 300 400 600 35 70 105 200 300 400 600 300 300 400 600 3.0 300 400 600 3.0 125.0 125.0 1.25 1.7 5.0 300 35.0 300 35.0 </td

NOTES:

1. 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



DO-201AD

RATING AND CHARACTERISTIC CURVES ER300 THRU ER306

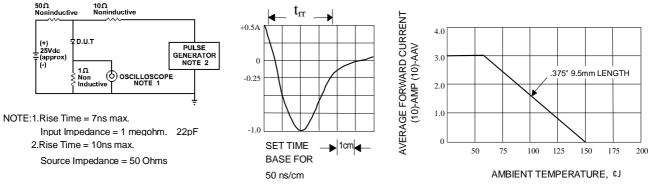
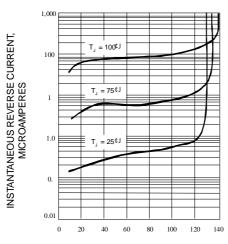


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



PERCENT OF RATED PEAK INVERSE VOLTAGE, VOLTS

Fig. 3-TYPICAL REVERSE CHARACTERISTICS

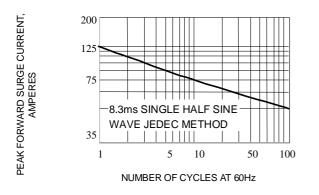


Fig. 5-MAXIMUM NON-REPETITIVE SURGE CURRENT

Fig. 2-MAXIMUM AVERAGE FORWARD CURRENT RATING

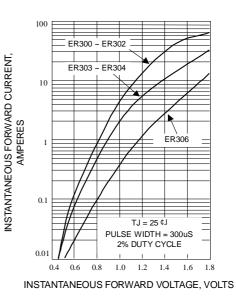


Fig. 4-FORWARD CURRENT DERATING CURVE

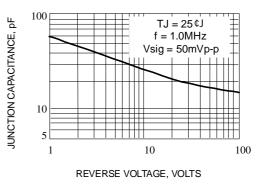


Fig. 6-TYPICAL JUNCTION CAPACITANCE

