ER200 THRU ER206

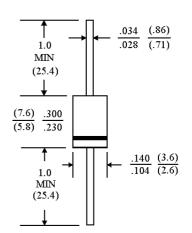
SUPERFAST RECOVERY RECTIFIERS VOLTAGE - 50 to 600 Volts CURRENT - 2.0 Amperes

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-15 Terminals: Axial leads, solderable to MIL-STD-202, Method 208 Polarity: Color Band denotes cathode end Mounting Position: Any Weight: 0.015 ounce, 0.4 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	ER200	ER201	ER201A	ER202	ER203	ER204	ER206	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	150	200	300	400	600	V
Maximum RMS Voltage	35	70	105	140	210	320	420	V
Maximum DC Blocking Voltage	50	100	150	200	300	400	600	V
Maximum Average Forward Current .375"(9.5mm) lead length at T _A =55 ¢J	2.0							A
Peak Forward Surge Current, I _{FM} (surge): 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	50.0							A
Maximum Forward Voltage at 2.0A DC	.95 1.25 1.7					1.7	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							£g A
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =125 ¢	200							£g A
Maximum Reverse Recovery Time(Note 1)	35.0							ns
Typical Junction capacitance (Note 2)	22							₽F
Typical Junction Resistance(Note 3) R £K JA	40							¢J /W
Operating and Storage Temperature Range $T_{\rm J}$	-55 to +150							¢J

NOTES:

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

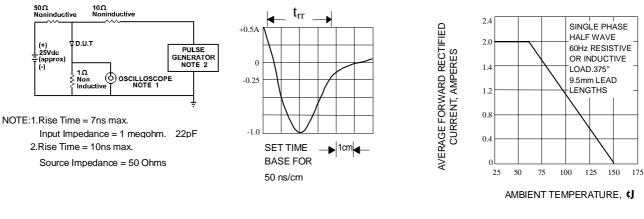
2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC

3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted



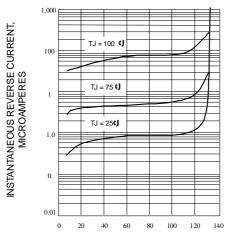
<u>DO-15</u>

RATING AND CHARACTERISTIC CURVES ER200 THRU ER206



INSTANTANEOUS FORWARD CURRENT,

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



PERCENT OF RATED PEAK INVERSE VOLTAGE, VOLTS

Fig. 3-TYPICAL REVERSE CHARACTERISTICS

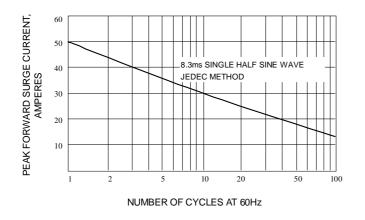
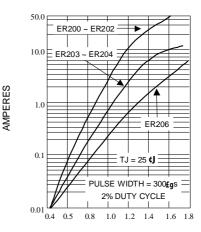


Fig. 5-MAXIMUM NON-REPETITIVE SURGE CURRENT

Fig. 2-MAXIMUM AVERAGE FORWARD CURRENT RATING



INSTANTANEOUS FORWARD VOLTAGE, VOLTS



