VISHAY MAS
GENERAL SEMICONDUCTOR

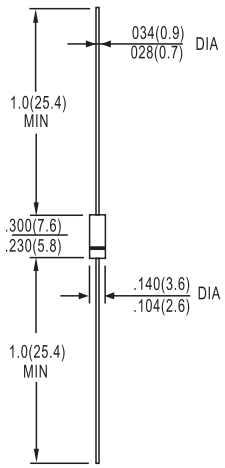
ER200 THRU ER206

50V-600V 2.0A

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

DO-15



Dimensions in inches and (millimeters)

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 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	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	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							uA
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A=125	200							uA
Maximum Reverse Recovery Time(Note 1)	35.0							ns
Typical Junction capacitance (Note 2)	22							pF
Typical Junction Resistance(Note 3) R JA	40							°C/W
Operating and Storage Temperature Range T_J	-55 to +150							°C

NOTES:

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

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RATINGS AND CHARACTERISTICS CURVES ER200 THRU ER206

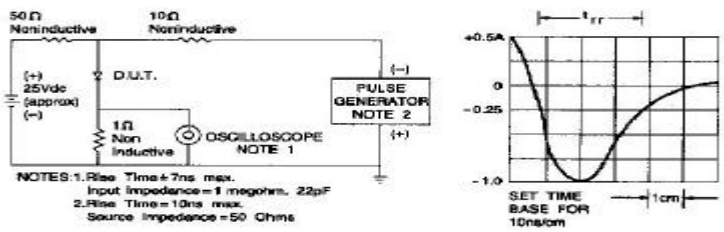

Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

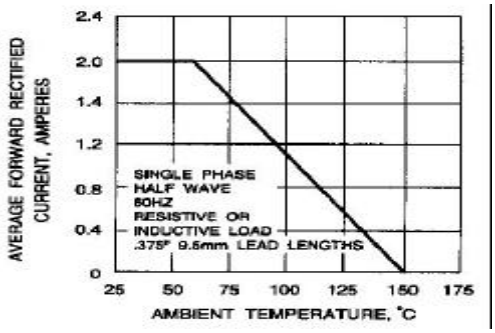

Fig. 2-MAXIMUM AVERAGE FORWARD CURRENT RATING

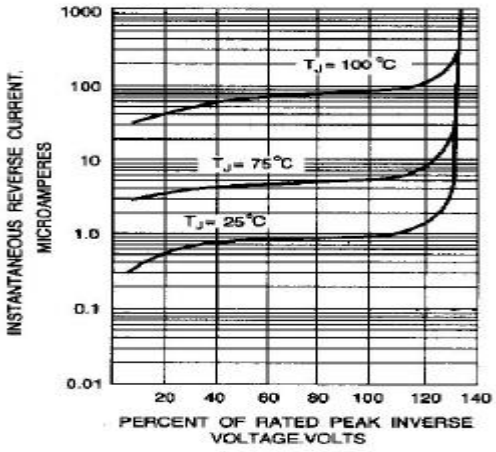

Fig. 3-TYPICAL REVERSE CHARACTERISTICS

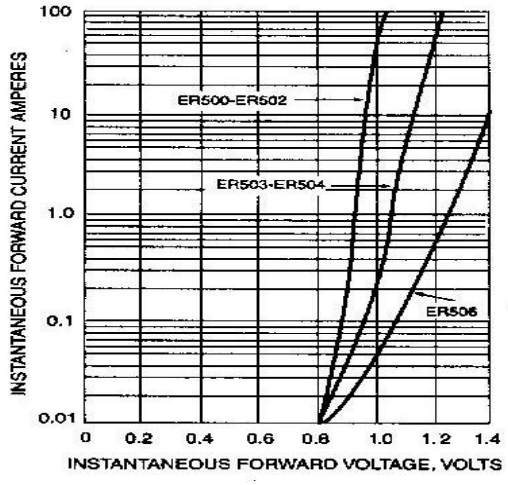

Fig. 4 -FORWARD CURRENT DERATING CURVE

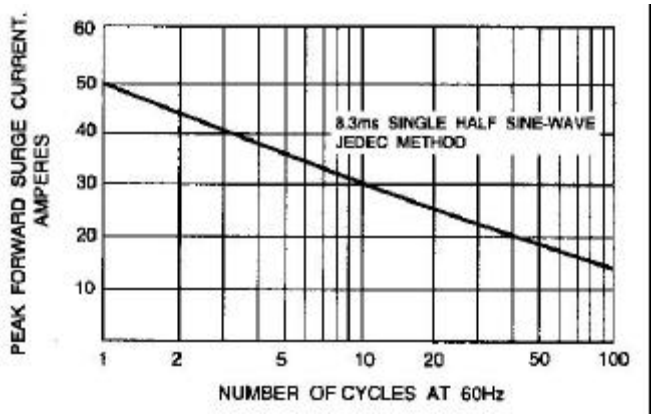

Fig. 5-MAXIMUM NON-REPETITIVE SURGE CURRENT

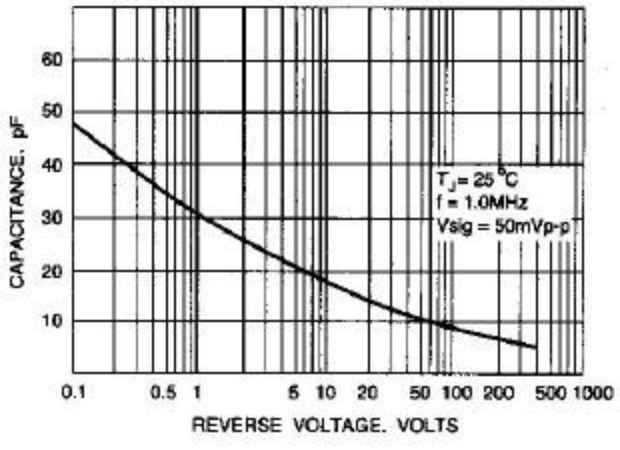

Fig. 6-TYPICAL JUNCTION CAPACITANCE