

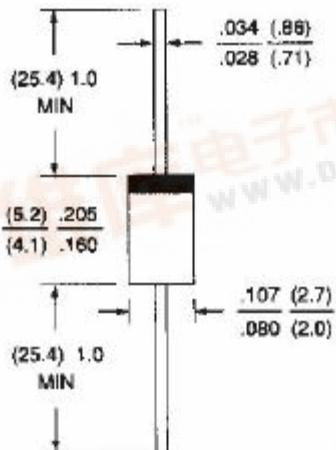
1N4741A THRU 1M200Z

GLASS PASSIVATED JUNCTION SILICON ZENER DIODE VOLTAGE - 11 TO 200 Volts Power - 1.0 Watt

FEATURES

- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Typical I_R less than 5.0 A above 11V
- High temperature soldering :
260 /10 seconds at terminals
- Plastic package has Underwriters Laboratory
Flammability Classification 94V-O

DO-41



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, DO-41

Epoxy: UL 94V-O rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202,
method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any

Weight: 0.012 ounce, 0.3 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation on $T_A=50$ (Note A) Derate above 50	P_D	1.0 6.67	Watts mW/
Peak forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method) (Note B)	I_{FSM}	10	Amps
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	

NOTES:

A. Mounted on 5.0mm²(.013mm thick) land areas.

B. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

RATING AND CHARACTERISTICS CURVES

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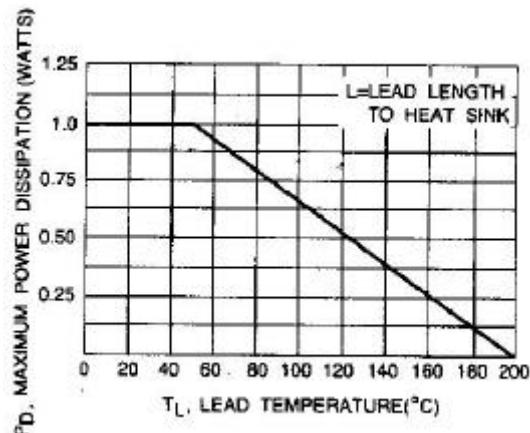


Fig. 1-POWER TEMPERATURE DERATING CUVE

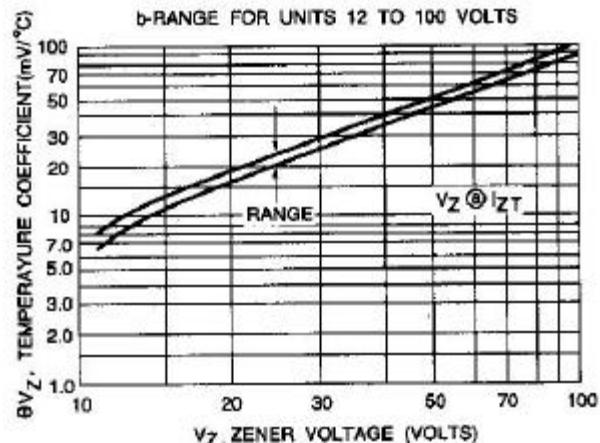
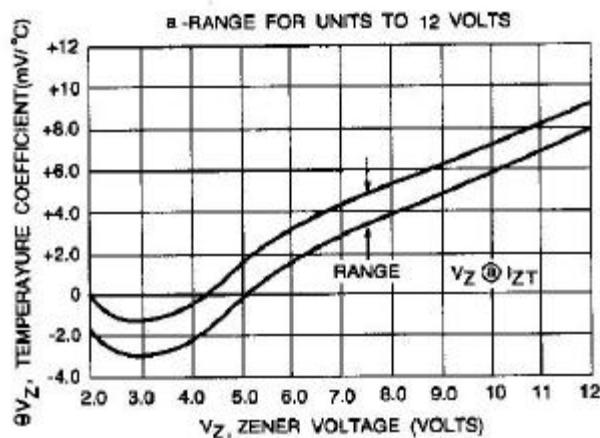


Fig. 2-TEMPERATURE COEFFICIENTS

(-55 to +150 temperature range; 90% of the units are in the ranges indicated.)

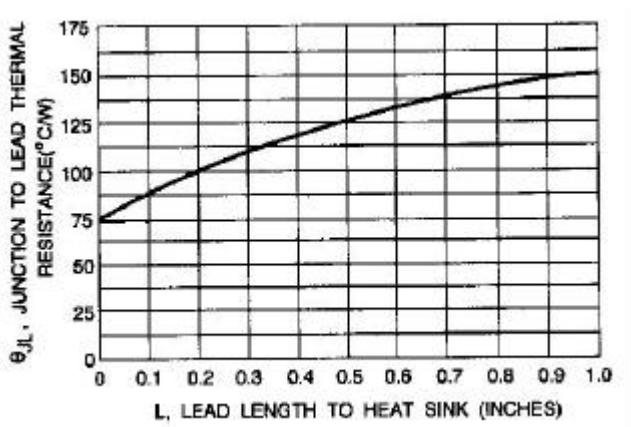


Fig. 3-TYPICAL THERMAL RESISTANCE
versus LEAD LENGTH

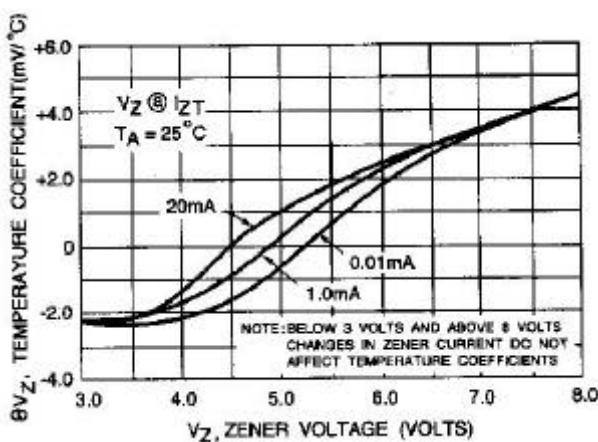
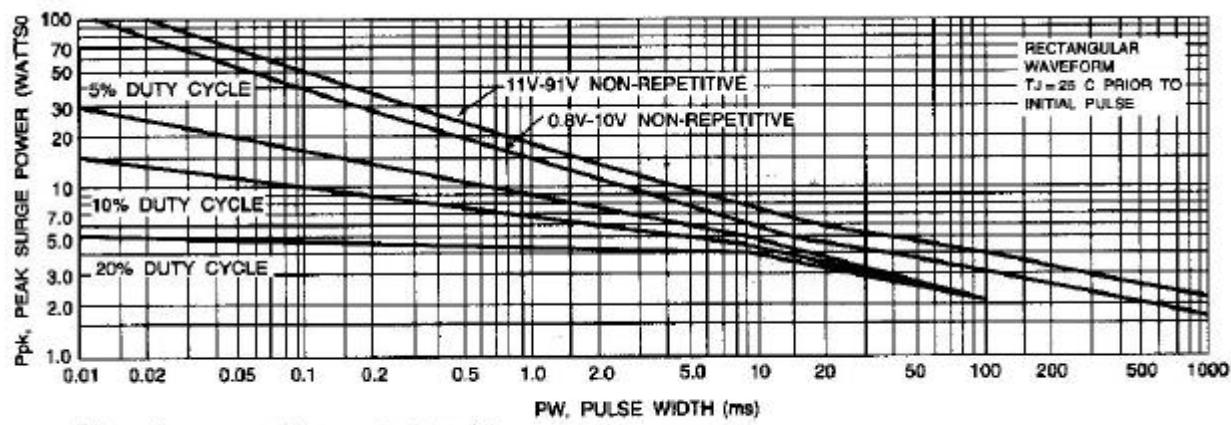


Fig. 4-EFFECT OF ZENER CURRENT

RATING AND CHARACTERISTICS CURVES

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This graph represents 90 percentile data points.
For worst-case design characteristics, multiply surge power by 2/3

Fig. 5-MAXIMUM SURGE POWER

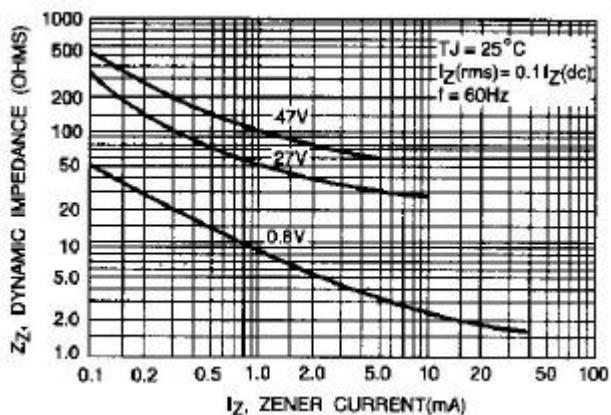


Fig. 6-EFFECT OF ZENER CURRENT
ON ZENER IMPEDANCE

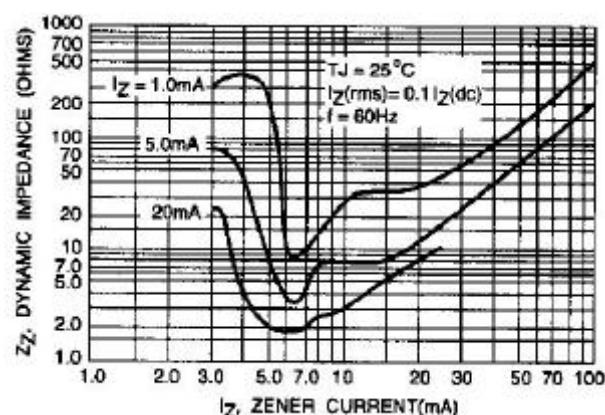


Fig. 7-EFFECT OF ZENER VOLTAGE
ON ZENER IMPEDANCE

RATING AND CHARACTERISTICS CURVES

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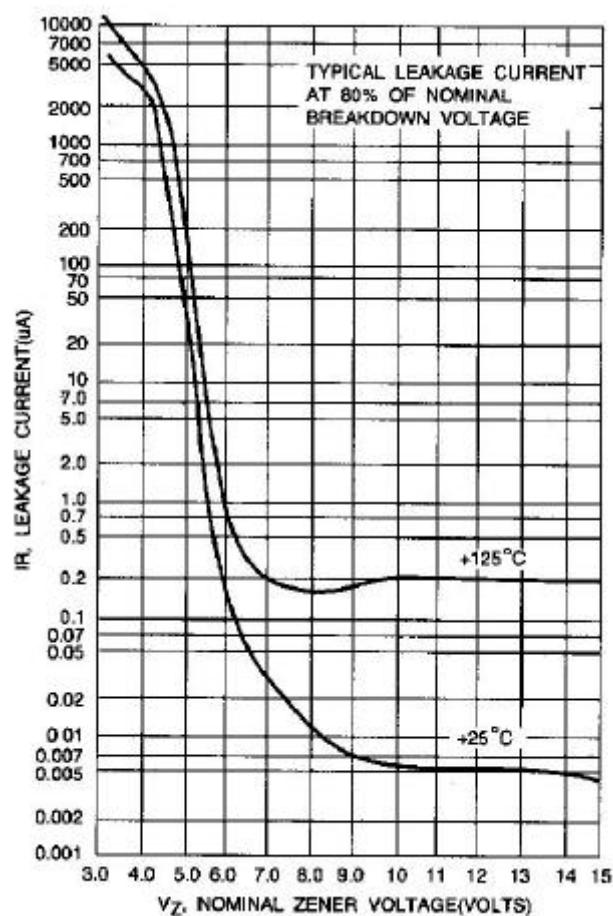


Fig. 8-TYPICAL LEAKAGE CURRENT

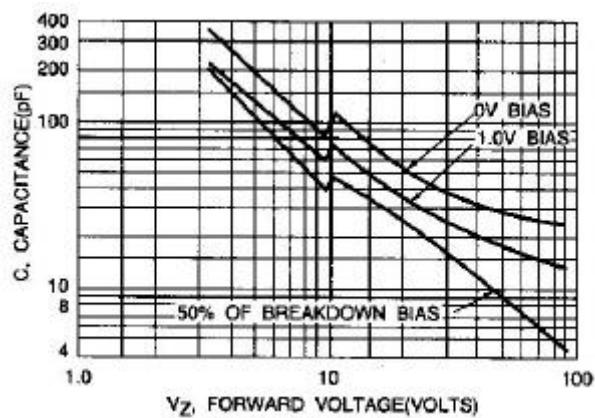


Fig. 9-TYPICAL CAPACITANCE versus V_z

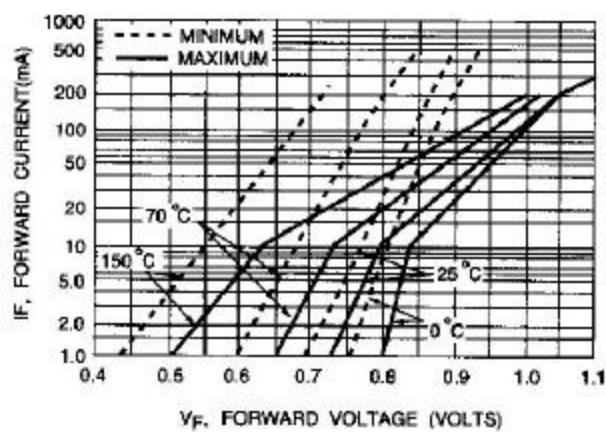


Fig. 10-TYPICAL FORWARD CHARACTERISTICS