

ALSO
AVAILABLE IN
SURFACE
MOUNT

Microsemi Corp.

The diode experts

SCOTTSDALE, AZ

For more information call:
(602) 941-6300

**1N6267 thru
1N6303A
and 1.5KE6.8 thru
1.5KE400A**

FEATURES

- ECONOMICAL
- 1500 WATTS PEAK PULSE POWER DISSIPATION
- STAND OFF VOLTAGES FROM 5.5V - 171V
- UNIPOLAR OR BIPOLAR
- AVAILABLE IN CHIP FORM FOR HYBRID APPLICATION
- MULTI-CHIP BIDIRECTIONAL CELLS AVAILABLE

DESCRIPTION

This defines a series of silicon Transient Suppressors designed to protect voltage sensitive components from high energy voltage transients. TAZ devices have become very important as a consequence of their high surge capability, extremely fast response time, and low incremental surge resistance (R_s).

To characterize TAZ, a minimum voltage at low current conditions (V_{BR}), and a maximum clamping voltage (V_C), at a maximum peak pulse current are specified. In addition, a maximum clamping ratio is indicated. The maximum leakage current at the rated stand-off voltage is also provided to assure low power consumption under normal conditions.

APPLICATION

This TAZ series has a peak pulse power rating of 1500 watts for one millisecond. It can protect integrated circuits, hybrids, CMOS, MOS, and other voltage sensitive components in a broad range of applications such as telecommunications, power supplies, computers, automotive, and industrial equipment.

MAXIMUM RATINGS

1500 Watts of Peak Pulse Power Dissipation at 25°C.

$t_{clamping}$ (0 Volts to $V_{(BR)}$ Min.):

Unidirectional $< 1 \times 10^{-12}$ Seconds; Bidirectional $< 5 \times 10^{-9}$ Seconds.

Operating and Storage Temperature -65°C to +175°C.

Forward Surge Rating 200 Amps, 1/20 Second at 25°C.

Steady State Power Dissipation 5.0 W @ $T_1 = 75^\circ\text{C}$.

(Not Applicable in Chip Form).

ELECTRICAL CHARACTERISTICS

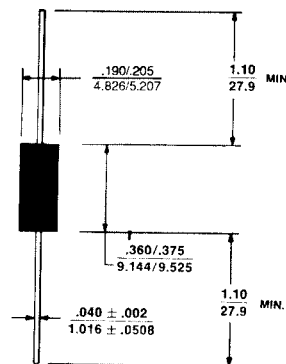
Clamping Factor: 1.33 @ full rated power

1.20 @ 50% rated power

The Clamping Factor is defined as: The ratio of the actual V_C (Clamping Voltage) to the actual $V_{(BR)}$ (Breakdown Voltage) as measured on a specific device.

TRANSIENT
ABSORPTION ZENER

UNIDIRECTIONAL
AND
BIDIRECTIONAL



All dimensions in **INCH**
m. m.

MECHANICAL CHARACTERISTICS

CASE: Molded

WEIGHT: 1.5 Grams (Approx.)

POLARITY: Positive Terminal
Marked with Band

