查询1N5631供应商

Microsemi Corp. he diode experts

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#### FEATURES

- PROTECTS CIRCUITS FROM HARMFUL TRANSIENTS
- ABSORBS 1 MS TRANSIENTS UP TO 1500 WATTS
- CLAMPS TRANSIENT IN 1 PICO SECOND
- 1 WATT CONTINUOUS POWER DISSIPATION
- WORKING VOLTAGE RANGE 5V TO 171V
- HERMETIC DO-13 METAL PACKAGE
- JAN/TX/TXV AVAILABLE PER MIL-S-19500/500

### **MAXIMUM RATINGS**

1500 watts for 1 ms at lead temp (T<sub>L</sub>) 25°C See rating curves Figs. 1 thru 4 Operating and storage temp -65° to 175°C DC power dissipation 1 watt at T<sub>L</sub> = 25°C, 3/8″ from body. Derate at 6.67 mW/°C Forward surge current 200 amps for 8.3 ms at T<sub>L</sub> = 25°C

## **ELECTRICAL CHARACTERISTICS**

See following table No suffix 10% tolerance Suffix A 5% tolerance

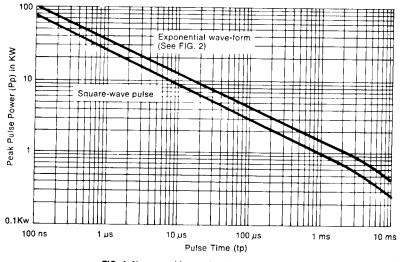
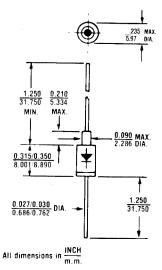


FIG. 1. Non- repetitive peak pulse power rating curve

Note: Peak power defined as peak voltage times peak current

#### TRANSIENT ABSORPTION ZENER



#### MECHANICAL CHARACTERISTICS

- CASE: DO-13, welded, hermetically sealed metal and glass.
- FINISH: All external surfaces are corrosion resistant and leads solderable.
- THERMAL RESISTANCE: 50°C/W (Typical) junction to lead at 0.375-inches from body.

POLARITY: Cathode connected to case. Polarity indicated by diode symbol.

WEIGHT: 1.4 grams (Appx.) MOUNTING POSITION: Any.

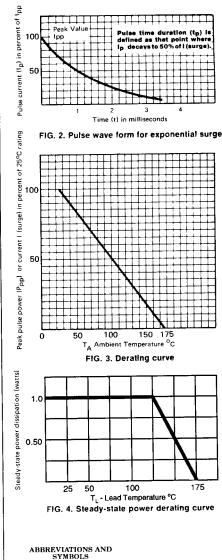
# 1N5629 thru 1N5665

## \*ELECTRICAL CHARACTERISTICS at $T_A = 25^{\circ}C$

Type No.	Breakdown Voltage (V <sub>BR</sub> ) Min. Max.		Test Current (IT)	Rated Standoff Voltage ( <sup>V</sup> WM)	Maximum Reverse Leakage Current (I <sub>D</sub> at V <sub>WM</sub> )	Maximum Peak Reverse Voltage (V <sub>C</sub> max. at Ipp)	Maximum Peak Puise Current (Ipp)	Maximum Temperature Coefficient of V(BR) QVZ (T <sub>A</sub> ) -55°C to 100°C
	Vdc	Vdc	mAdc	V	<b>⊿</b> Adc	V	A	%°C
IN5629 IN5629 IN5630A IN5630A IN5631A IN5631A IN5631A IN5631A IN5635A IN5635A IN5635A IN5635A IN5635A IN5635A IN5635A IN5635A IN5637 IN5635A IN5637 IN5636A IN5637 IN5637 IN5636A IN5637 IN5637 IN5637 IN5640A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5647A IN5657A IN5657A IN56563 IN56567A IN56567A IN56567A IN56567A IN567A IN567A	$\begin{array}{c} 6.12\\ 6.45\\ 6.45\\ 7.13\\ 7.79\\ 8.65\\ 9.99\\ 9.9\\ 9.5\\ 10.8\\ 4.12\\ 1.2\\ 2.22\\ 3.1\\ 4.15\\ 2.22\\ 2.5\\ 2.22\\ 3.1\\ 4.2\\ 2.2\\ 2.5\\ 2.2\\ 3.1\\ 4.2\\ 3.5\\ 1.1\\ 1.2\\ 4.2\\ 2.2\\ 2.2\\ 2.2\\ 2.2\\ 2.2\\ 2.2\\ 2$	$\begin{array}{c} 7.48\\ 8.25\\ 7.88\\ 9.61\\ 10.5\\ 11.05\\ 12.16\\ 13.26\\ 10.5\\ 12.16\\ 13.26\\ 10.5\\ 12.16\\ 10.5\\ 12.16\\ 10.5\\ 12.16\\ 10.5\\ 12.16\\ 10.5\\ 10$		$\begin{array}{c} 5.50\\ 5.80\\ 6.05\\ 6.40\\ 7.07\\ 7.78\\ 8.10\\ 8.55\\ 8.940\\ 9.72\\ 10.2\\ 10.5\\ 11.1\\ 12.1\\ 12.8\\ 15.5\\ 9.40\\ 9.72\\ 10.2\\ 10.5\\ 11.1\\ 12.1\\ 12.8\\ 14.5\\ 15.2\\ 11.1\\ 12.1\\ 12.8\\ 14.5\\ 20.1\\ 14.5\\ 20.1\\ 14.5\\ 20.1\\ 14.5\\ 20.1\\ 14.5\\ 20.1\\ 14.5\\ 20.1\\ 14.5\\ 20.1\\ 14.5\\ 20.1\\ 14.5\\ 20.1\\ 14.5\\ 20.1\\ 14.5\\ 20.1$	00000 10000 1255 22255-10 1255 2255-10 1255 2255-10 1005-10 1005-10 1005-1005-1005-100	$\begin{array}{c} 10.8\\ 10.5\\ 11.7\\ 11.3\\ 12.1\\ 13.4\\ 15.6\\ 17.3\\ 14.5\\ 16.6\\ 17.3\\ 19.0\\ 22.0\\ 23.5\\ 25.5\\ 25.2\\ 25.5\\$	$\begin{array}{c} 139\\ 143\\ 128\\ 122\\ 120\\ 124\\ 100\\ 103\\ 93\\ 96\\ 87\\ 90\\ 79\\ 92\\ 68\\ 71\\ 64\\ 67\\ 559\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 5$	.057 .057 .061 .061 .065 .068 .068 .068 .073 .073 .075 .075 .075 .078 .081 .081 .084 .084 .084 .086 .088 .088 .088 .090 .090 .090 .092 .092 .092 .092 .092

\*V(BR) is measured after IT has been applied for  $\leq$  300 ms.

Forward voltage VF at 100 amps peak 8.3 msec is 3.5 volts max. Forward current IF shall be applied for 30 secs. before VF is measured.



V<sub>WM</sub> Stand Off Voltage: Ap-plied Reverse Voltage to assure a nonconductive condition. (See Note 1.)

 $V_{(BR)}$  This is the Breakdown Voltage the device will exhibit and is used to assure that conduction does not occur prior to this voltage level at 25°C.

this voltage level at  $25^{\circ}$ C. V<sub>C</sub> Maximum Clamping Voltage. The maximum peak voltage appearing across the Zener when subjected to the peak pulse current in a one millissecond time interval. The peak pulse voltages are the combiner voltages are the combiner voltages are the combiner voltages.

nation of voltage rise due to both the series resistance and thermal rise.

Peak Pulse Current-See

A TAZ is normally selected according to the rated "Stand Off Voltage" Vww which should be equal to or greater than the DC or continuous peak operating voltage level.

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