

1N6389

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR STANDOFF VOLTAGE- 5.0 to 45.0V 1500 Watt Peak Power

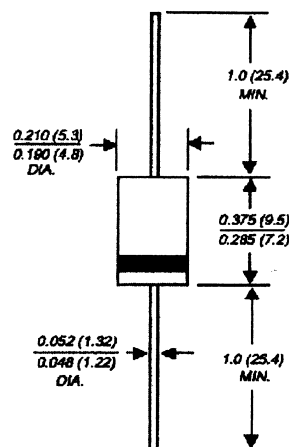
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94 V-O
- Glass passivated chip junction in Molded Plastic package
- 1500W surge capability at 1ms
- Excellent clamping capability
- Low zener impedance
- Fast response time: typically less than 1.0 ps from 0 volts to BV min.
- Typical IR less than 1μA above 10V
- High temperature soldering guaranteed: 250°C/10 seconds/ .375", (9.5mm) lead length, 5lbs., (2.3kg) tension
- Includes 1N6373 thru 1N6385

MECHANICAL DATA

Case: JEDEC DO-201 Molded plastic
Terminals: Plated Axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denoted positive end (cathode) except Bipolar
Mounting Position: Any
Weight: 0.045 ounces, 1.2 grams

DO-201



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation at TA = 25 °C, TP = 1ms (NOTE 1)	Pppm	Minimum 1500	Watts
Peak Pulse Current of on 10/1000 μs waveform (Note 1)	Ippm	SEE TABLE 1	Amps
Steady State Power Dissipation at TL = 75°C Lead lengths .375", 9.5mm (Note 2)	Pm(AV)	5.0	Watts
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load, (JEDEC Method)(Note 3)	IFSM	200	Amps
Maximum instantaneous forward voltage at 100A for unidirectional only	Vf	3.5	Volt
Operating and Storage Temperature Range	Tj, Tstg	-55 +175	°C

NOTES:

1. Non-repetitive current pulse, per Fig.3 and derated above Ta=25 °C per Fig.2.
2. Mounted on Copper Pad area of 0.8x0.8" (20x20mm) per Fig.5.
3. 8.3ms single half sine-wave or equivalent square wave. Duty cycle 4 pulses per minute maximum.