

### FEATURES:

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number
- Available Non-RoHS (standard) or RoHS compliant (add PBF suffix)
- 1500 Watts for 10/1000 $\mu$ s with repetition rate of 0.01% or less at lead temperature  $T_L = 25^\circ\text{C}$ .

### MAXIMUM RATINGS

Characteristics	Value
Thermal resistance	50°C/W junction to lead at 0.375" from body or 110°C/W junction to ambient when mounted on FR4 PC board with 4 mm <sup>2</sup> copper pads and track width of 1mm, length 25mm
DC power dissipation	1 Watt at $T_L \leq 125^\circ\text{C}$ 3/8" or 10 mm from body
Forward surge current	200 Amps for 8.3ms half-sine wave at $T_A = 25^\circ\text{C}$ for unidirectional only (1N6356-1N6364)
Solder temperature	260°C for 10 sec maximum
Operating and storage temperature	-65° to 175°C

### ELECTRICAL CHARACTERISTICS UNIDIRECTIONAL ( $T_A = 25^\circ\text{C}$ )

Part number	Standoff voltage <sup>(1)</sup>	Maximum reverse leakage @ $V_{WM}$	Minimum breakdown voltage @ 1.0mA	Maximum clamping voltage @ $I_{PP1} = 1\text{A}$	Maximum clamping voltage @ $I_{PP2} = 10\text{A}$	Maximum peak pulse current
	$V_{WM}$	$I_D$	$V_{(BR)}$	$V_C$	$V_C$	$I_{PP3}$
	Volts	$\mu\text{A}$	Volts	Volts	Volts	Amps
1N6356	5.0	300	6.0	7.1	7.5	160
1N6357	8.0	25	9.4	11.3	11.5	100
1N6358	10.0	2	11.7	13.7	14.1	90
1N6359	12.0	2	14.1	16.1	16.5	70
1N6360	15.0	2	17.6	20.1	20.6	60
1N6361	18.0	2	21.2	24.2	25.2	50
1N6362	22.0	2	25.9	29.8	32.0	40
1N6363	36.0	2	42.4	50.6	54.3	23
1N6364	45.0	2	52.9	63.3	70.0	19

### ELECTRICAL CHARACTERISTICS - BIDIRECTIONAL ( $T_A = 25^\circ\text{C}$ )

Part number	Standoff voltage <sup>(1)</sup>	Maximum reverse leakage @ $V_{WM}$	Minimum breakdown voltage @ 1.0mA	Maximum clamping voltage @ $I_{PP1} = 1\text{A}$	Maximum clamping voltage @ $I_{PP2} = 10\text{A}$	Maximum peak pulse current
	$V_{WM}$	$I_D$	$V_{(BR)}$	$V_C$	$V_C$	$I_{PP3}$
	Volts	$\mu\text{A}$	Volts	Volts	Volts	Amps
1N6365	8.0	25	9.4	11.4	11.6	100
1N6366	10.0	2	11.7	14.1	14.5	90
1N6367	12.0	2	14.1	16.7	17.1	70
1N6368	15.0	2	17.6	20.8	21.4	60
1N6369	18.0	2	21.2	24.8	25.5	50
1N6370	22.0	2	25.9	30.8	32.0	40

# 1N6356-1N6372

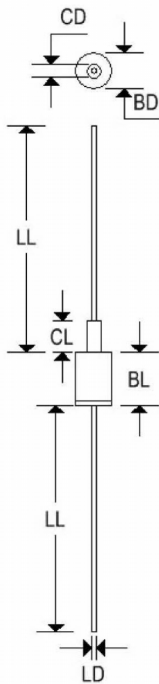
## Transient Voltage Suppressor 1500 Watt

### ELECTRICAL CHARACTERISTICS - BIDIRECTIONAL ( $T_A = 25^\circ\text{C}$ )

Part number	Standoff voltage <sup>(1)</sup>	Maximum reverse leakage @ $V_{WM}$	Minimum breakdown voltage @ 1.0mA	Maximum clamping voltage @ $I_{PP1} = 1\text{A}$	Maximum clamping voltage @ $I_{PP2} = 10\text{A}$	Maximum peak pulse current
	$V_{WM}$	$I_D$	$V_{(BR)}$	$V_C$	$V_C$	$I_{PP3}$
	Volts	$\mu\text{A}$	Volts	Volts	Volts	Amps
1N6371	36.0	2	42.4	50.6	54.3	23
1N6372	45.0	2	52.9	63.3	70.0	19

### MECHANICAL CHARACTERISTICS

Case	DO-13
Marking	Alpha-numeric, body painted
Polarity	Cathode band



	DO-13			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.235	-	5.970
BL	0.315	0.350	8.001	8.890
LD	0.027	0.035	0.686	0.762
LL	1.250	-	31.750	-
CD	-	0.100	-	2.540
CL	-	0.210	-	5.334

# 1N6356-1N6372

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