



High-reliability discrete products  
and engineering services since 1977

# 1N5610-1N5613

1500W TRANSIENT VOLTAGE SUPPRESSOR

## 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)

## MAXIMUM RATINGS

	1N5610	1N5611	1N5612	1N5613
Zener Voltage:	See electrical specifications			
Forward Surge Current:	200A	200A	200A	200A
Zener Surge Current @ 25°C:	32.0A	24.0A	19.0A	5.7A
Surge Current @ 150°C:	5.5A	4.8A	3.2A	1.0A
Surge Power:	See graph			
Storage and Operating Temperature:	-65°C to +175°C			

## ELECTRICAL CHARACTERISTICS

Type	Min. Zener Voltage § V <sub>Z</sub> @ 1mA	Max. Zener Voltage † V <sub>Z</sub> @ I <sub>s</sub>		Max. Reverse Leakage Current I <sub>R</sub> @ V <sub>R</sub>		Max. Forward Voltage V <sub>F</sub> @ 100 Amps	Typical Temperature Coefficient
	Volts	Volts	Amps	µA	Volts	Volts	%/°C
1N5610	33.0	47.5	32.0	5.0	30.5	4.8	.093
1N5611	43.7	63.5	24.0	5.0	40.3	4.8	.094
1N5612	54.0	78.5	19.0	5.0	49.0	4.8	.096
1N5613	191.0	265.0	5.7	5.0	175.0	4.8	.100

Notes: § Duration of applied current ≤300ms, duty cycle ≤ 2%.

† Utilizing a pulse which decays exponentially to 50% of the peak value in 1ms.

See graph entitled "Pulse Waveform."

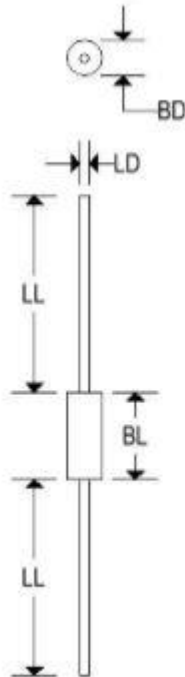
‡ Peak Sinusoidal surge current of 8.3ms duration, non-repetitive.

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## MECHANICAL CHARACTERISTICS

<b>Case</b>	DO-201
<b>Marking</b>	Alpha-numeric
<b>Polarity</b>	Cathode band



	DO-201			
	Inches		Millimeters	
	Min	Max	Min	Max
<b>BD</b>	0.190	0.250	4.826	6.350
<b>BL</b>	0.285	0.375	7.239	9.525
<b>LD</b>	0.038	0.042	0.965	1.067
<b>LL</b>	1.000	-	25.400	-

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