1N5610 - 1N5613

UNI-DIRECTIONAL TRANSIENT VOLTAGE SUPPRESSOR

V_{WM} : 30.5 -175 Volts
P_{PP} : 1500 Watts

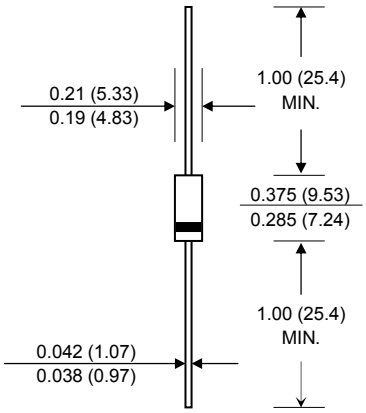
FEATURES :

* Peak pulse power: 1500W at 10/1000 µs
* Extensive rang in Working Peak "Standoff" Voltage (V_{WM}) from 30.5 to 175 V
* High surge current
* Excellent robust construction
* Pb / RoHS Free

MECHANICAL DATA

* Case : DO-201 Molded plastic
* Epoxy : UL94V-O rate flame retardant
* Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
* Polarity : Color band denotes cathode.
* Mounting position : Any
* Weight : 0.93 grams

DO-201



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (Rating at 25 °C ambient temperature unless otherwise specified)

Rating	Symbol	Value	Unit
Peak Pulse Power at Ta = 25 °C, 10/1000 µs	P_{PP}	1500	W
Steady State Power at Ta = 25 °C	P_D	3.0	W
Operating and Storage Temperature Range	T_J, T_{STG}	- 55 to + 175	°C

ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified)

Type No.	Minimum Breakdown Voltage at $I_{(BR)}$		Working Peak Voltage	Maximum Leakage Current @ V_{WM}	Maximum Clamping Voltage @ I_{PP}	Maximum Reverse Current	Maximum Temperature Co-efficient of $V_{(BR)}$
	$V_{(BR)}$	$I_{(BR)}$	V_{WM}	I_D	V_C	I_{PP}	
	Min.	(mA)	(V)	(µA)	(V)	(A)	(% / °C)
1N5610	33.0	1.0	30.5	5	47.6	32	0.093
1N5611	43.7	1.0	40.3	5	63.5	24	0.094
1N5612	54.0	1.0	49.0	5	78.5	19	0.096
1N5613	191	1.0	175	5	265	5.7	0.100

RATING AND CHARACTERISTIC CURVES (1N5610 - 1N5613)

FIG.1 - DRATING CURVE

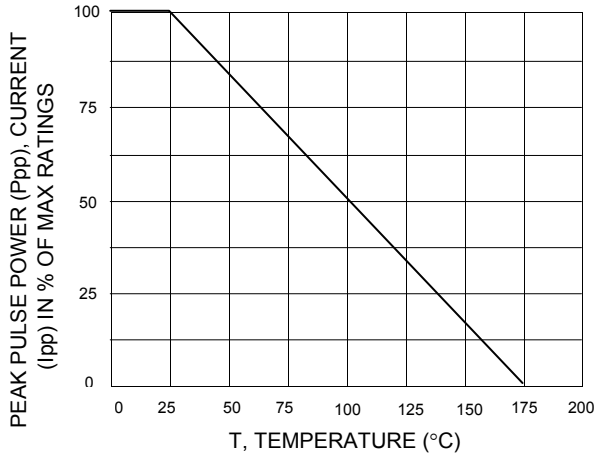


FIG.2 - NON-REPETITIVE PEAK PULSE POWER RATING CURVE

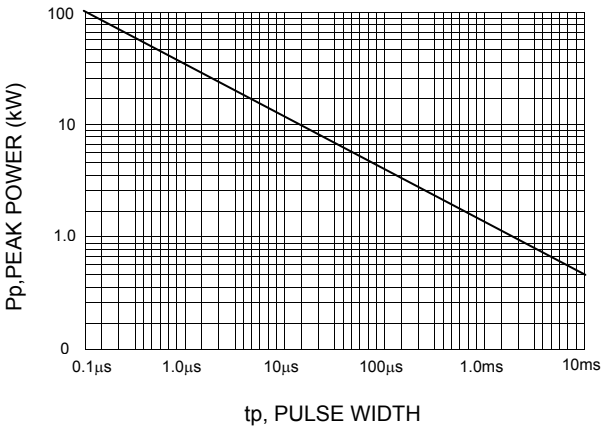


FIG.3 - PULSE WAVEFORM

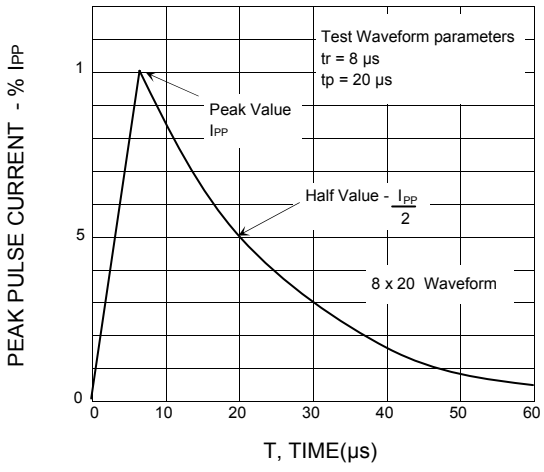


FIG.4 - PULSE WAVEFORM FOR EXPONENTIAL SURGE FOR 10/1000 µs

