

MPT / 1N6356 - 1N6372 series

MPT SERIES (1500 WATT) METAL AXIAL TRANSIENT VOLTAGE SUPPRESSORS (hermetically sealed package)

The MPT series 1500 W transient suppressors are designed specifically for the protection of CMOS, NMOS, BiMOS, and other intergrated circuits available today for TTL, DTL, ECL, RTL, and linear functions. This series offers the lowest clamping voltages.

FEATURES

- Stand-off voltage range 5.0 - 45 Volts
- Glass Passivated Junction
- Excellent clamping capability
- Low zener impedance
- 100% Surge tested
- -65°C to +175°C
- Hermetically sealed
- Uni & Bi directional

MAXIMUM RATING

- Peak Pulse Power (Ppk): 1500 Watts (10 X 1000 μ s). See diagram on page 6 for wave form
- 1 Watt Steady State
- Response time: 1 X 10⁻¹² seconds (theoretical)
- Operating & storage temperature: -55°C to +175°C

MECHANICAL CHARACTERISTICS

- CASE: Metal hermetically sealed DO-13 package
- Terminals: Axial leads, solderable per MIL-STD-202 Method 208
- Polarity: Cathode indicated by colour band
- Weight: 1.5 grammes (approx)

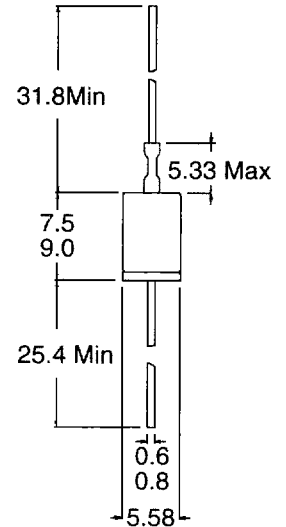
ELECTRICAL CHARACTERISTICS @ 25°C

PART NUMBER	REVERSE STANDOFF VOLTAGE V _R (Volts)	MINIMUM BREAKDOWN VOLTAGE V _{BR} @ 1 mA (Volts)	MAXIMUM REVERSE LEAKAGE I _R @ V _R (μ A)	MAXIMUM CLAMPING VOLTAGE @ I _{PP1} =1A (Volts)	MAXIMUM CLAMPING VOLTAGE @ I _{PP2} =10A (Volts)	MAXIMUM PEAK PULSE CURRENT I _{PP} (A)
1N6356 / MPT-5*	5.0	6.0	300.0	7.1	7.5	160.0
1N6357 / MPT-8	8.0	9.4	25.0	11.3	11.5	100.0
1N6358 / MPT-10	10.0	11.7	2.0	13.7	14.1	90.0
1N6359 / MPT-12	12.0	14.1	2.0	16.1	16.5	70.0
1N6360 / MPT-15	15.0	17.6	2.0	20.1	20.6	60.0
1N6361 / MPT-18	18.0	21.2	2.0	24.2	25.2	50.0
1N6362 / MPT-22	22.0	25.9	2.0	29.8	32.0	40.0
1N6363 / MPT-36	36.0	42.4	2.0	50.6	54.3	23.0
1N6364 / MPT-45	45.0	52.9	2.0	63.3	70.0	19.0

V_F max = 3.5 Volts at I_F = 50A 300 μ S square wave pulse

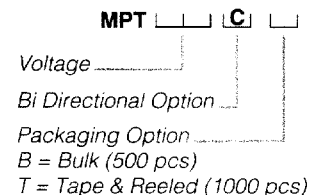
1N6365 / MPT-8C	8.0	9.4	50.0	11.4	11.6	100.0
1N6366 / MPT-10C	10.0	11.7	2.0	14.1	14.5	90.0
1N6367 / MPT-12C	12.0	14.1	2.0	16.7	17.1	70.0
1N6368 / MPT-15C	15.0	17.6	2.0	20.8	21.4	60.0
1N6369 / MPT-18C	18.0	21.2	2.0	24.8	25.5	50.0
1N6370 / MPT-22C	22.0	25.9	2.0	30.8	32.0	40.0
1N6371 / MPT-36C	36.0	42.4	2.0	50.6	54.3	23.0
1N6372 / MPT-45C	45.0	52.9	2.0	63.3	70.0	19.0

*MPT-5 is not available in Bi-directional Suffix 'C' denotes Bi-directional device.



All dimensions in mm

ORDERING INFORMATION



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Figure 1 - Peak Pulse Power Rating Curve

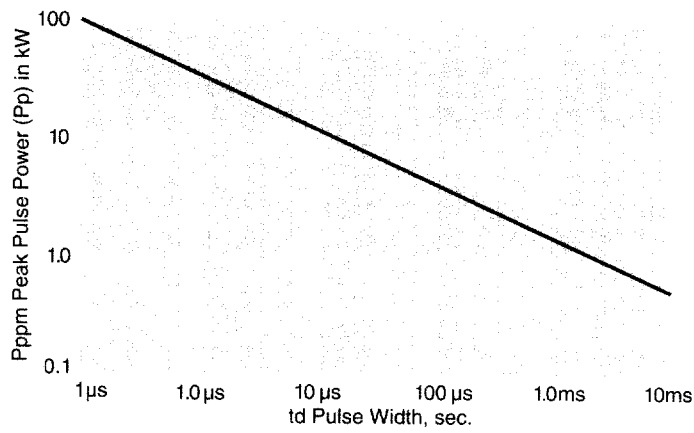


Figure 2 - Typical Junction Capacitance

