

**GLASS PASSIVATED
LOW CAPACITANCE
TRANSIENT VOLTAGE SUPPRESSORS**

PEAK PULSE POWER 300 WATTS

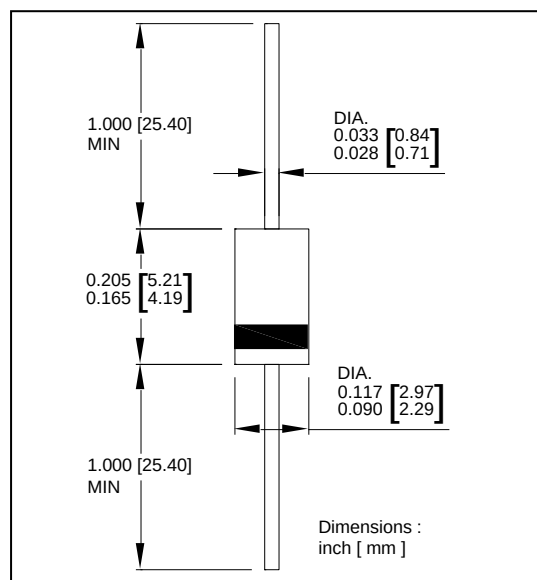
FEATURES

- Glass passivated chip
- 300 W peak pulse power capability with a 10/1000 μ s waveform, repetitive rate (duty cycle):0.01 %
- Low incremental surge resistance
- Very fast response time
- Excellent clamping capability
- Pb-free plated

MECHANICAL DATA

- Case: DO-41 molded plastic over a passivated junction
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-750, method 2026 guaranteed
- Polarity: Color band denotes TVS cathode end
- Mounting position: Any

DO-41



RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	ZD	DI	UNIT
Peak power dissipation with a 10/1000 μ s waveform	P_{PPM}	300	–	Watts
Maximum Reverse Voltage	V_{RM}	170	600	V
Peak Surge Reverse Current	I_{RSM}	1	–	A
Movement Start Voltage	V_{BR}	185-215	–	V
Maximum Restriction Voltage @ $I_{PP}=0.75A$	V_{CL}	300	–	V
Maximum Leak Current	I_R	5		μA
Reverse Recovery Time	T_{rr}	–	<500	ns
Operating junction and storage temperature range	T_J, T_{STG}	–55~150		°C
Power Dissipation on Infinite Heat Sink at $T_L=50^{\circ}C$	P_D	2.5	–	Watts

Low Capacitance Series

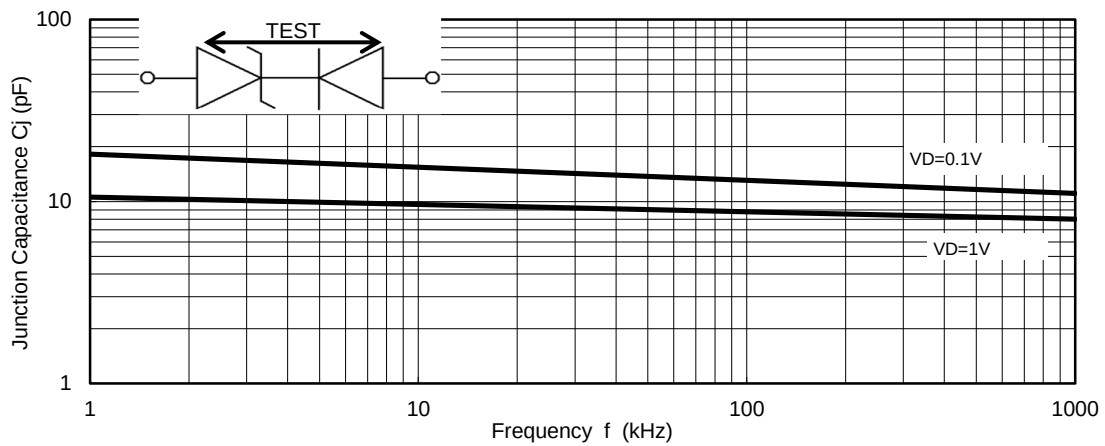


Fig.1 - Junction Capacitance

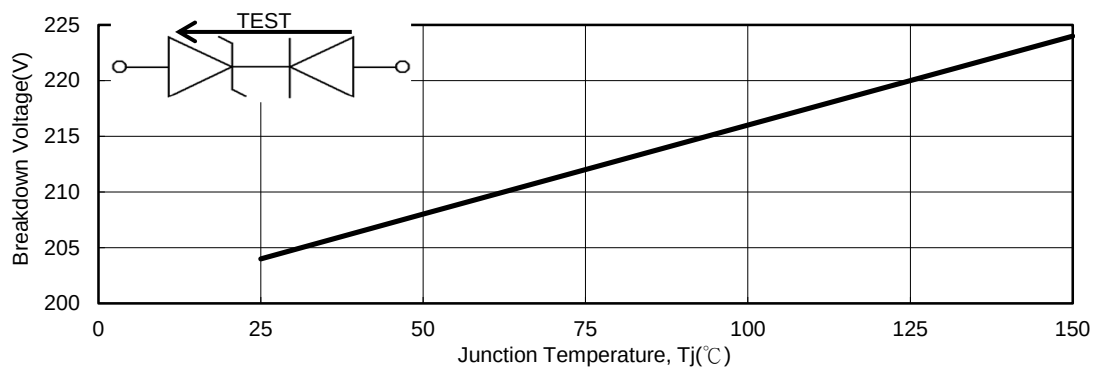


Fig.2 - Breakdown Voltage

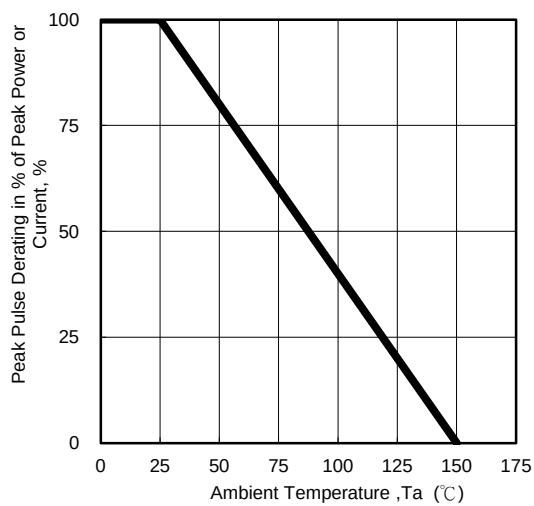


Fig. 3 - Pulse Derating Curve

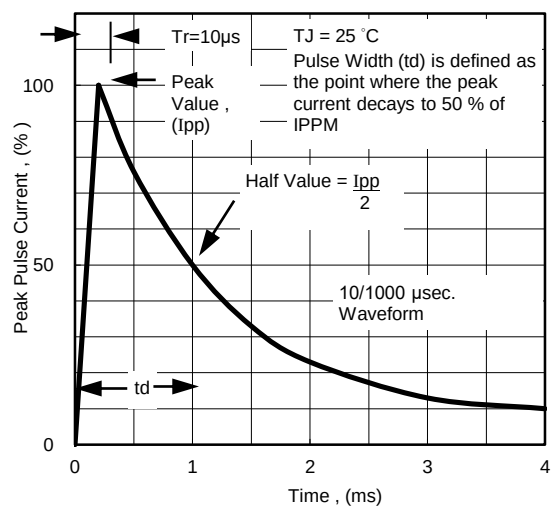


Fig. 4 - Pulse Waveform