ANOVA TECHNOLOGIES CO.,LTD.

AT03P-170

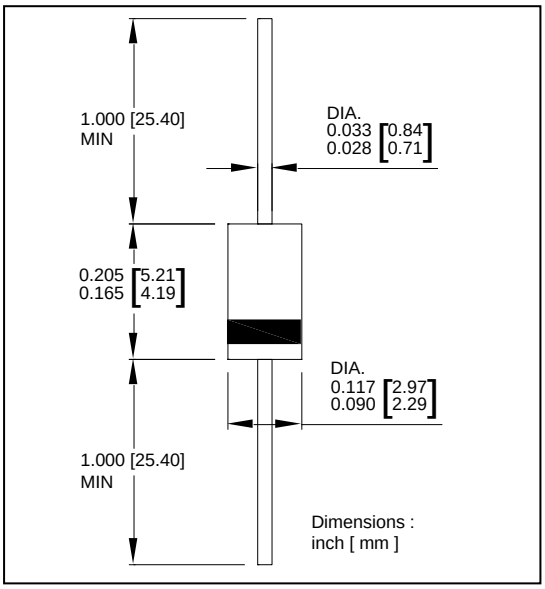
GLASS PASSIVATED
LOW CAPACITANCE
TRANSIENT VOLTAGE SUPPRESSORS

PEAK PULSE POWER **300** WATTS

FEATURES

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

DO-41



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 guranteed
- Polarity: Color band denotes TVS cathode end
- Mounting position: Any

RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Parameter	Symbol	ZD	DI	UNIT
Peak power dissipation with a 10/1000μs waveform	P_{PPM}	300	-	Watts
Maximum Reverse Voltage	V_{RM}	145	600	V
Peak Surge Reverse Current	I_{RSM}	1.1	-	A
Movement Start Voltage	V_{BR}	155-185	-	V
Maximum Restriction Voltage @ I_{PP}=0.75A	V_{CL}	280	-	V
Maximum Leak Current	I_R	5		μA
Reverse Recovery Time	Trr	-	<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℃	P_D	2.5	-	Watts
Maximum Thermal Resistance	ΘJL	20		°C/W

Low Capacitance Series

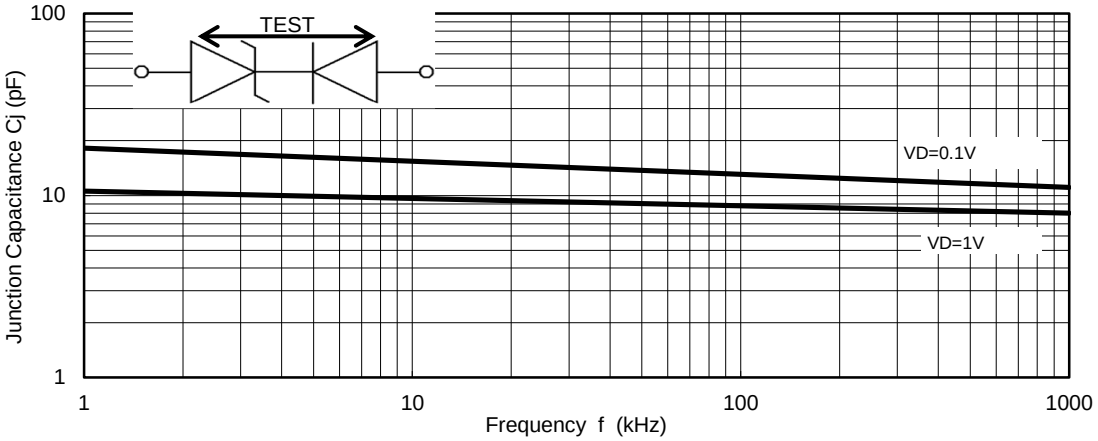


Fig.1 - Junction Capacitance

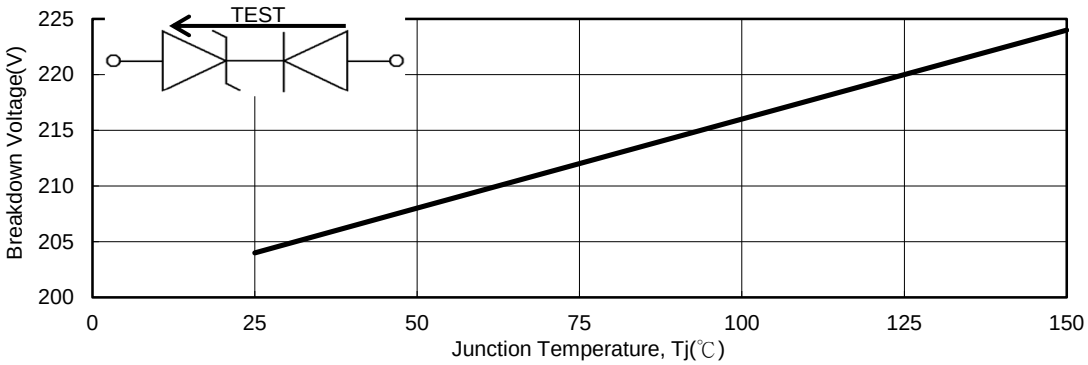


Fig.2 - Breakdown Voltage

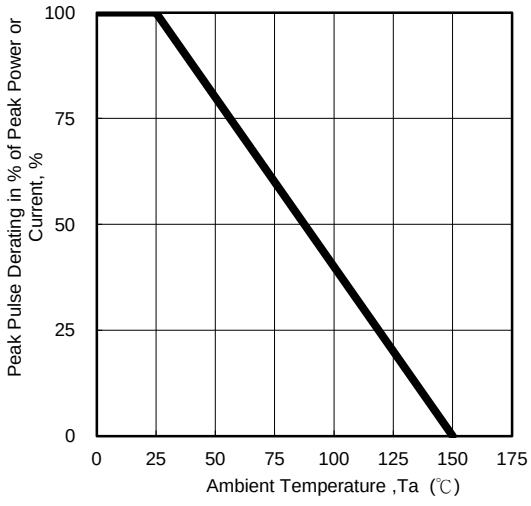


Fig. 3 - Pulse Derating Curve

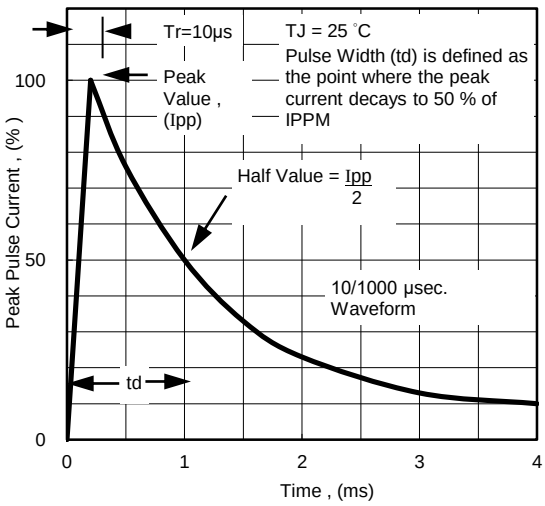


Fig. 4 - Pulse Waveform