

SMA02P-170

ANOVA
TECHNOLOGIES CO.,LTD.

Reverse Voltage: 170 V
Peak Pulse Power: 200 W

Surface Mount
Transient Voltage Suppressors

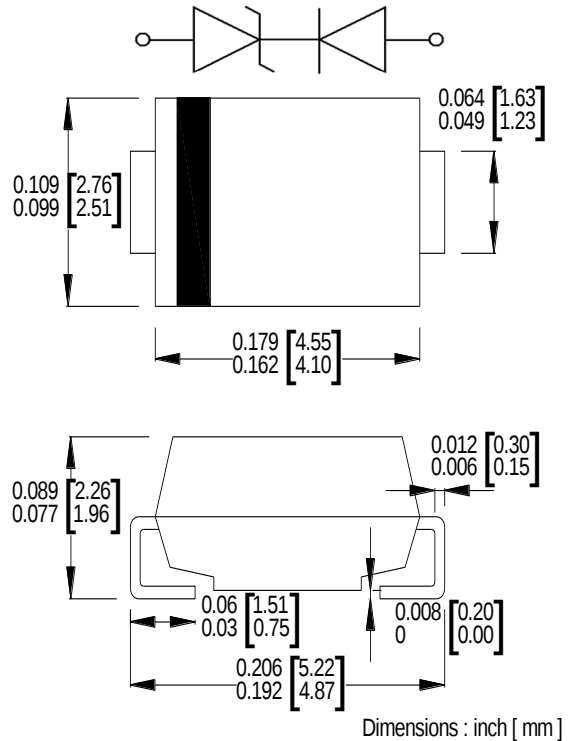
Features

- Glass passivated chip
- 200 W peak pulse power capability with a 10/1000 μ s waveform, repetitive rate (duty cycle):0.01 %
- Low leakage
- Uni and Bidirectional unit
- Excellent clamping capability
- Very fast response time
- RoHS compliant

Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Mounting position: Any
- Marking code: **SAR**

SMA/ DO-214AC



Maximum Ratings($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	ZD	DI	UNIT
Peak power dissipation with a 10/1000 μ s waveform	P_{PPM}	200	—	Watts
Maximum Reverse Voltage	V_{RM}	145	800	V
Peak Surge Reverse Current	I_{RSM}	0.75	—	A
Movement Start Voltage	V_{BR}	155-185	—	V
Maximum Restriction Voltage @ $I_{pp}=0.75\text{A}$	V_{CL}	280	—	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		$^{\circ}\text{C}$
Power Dissipation on Infinite Heat Sink at $T_L=50^{\circ}\text{C}$	P_D	1	—	Watts
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	50	—	$^{\circ}\text{C/W}$

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Ratings and Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

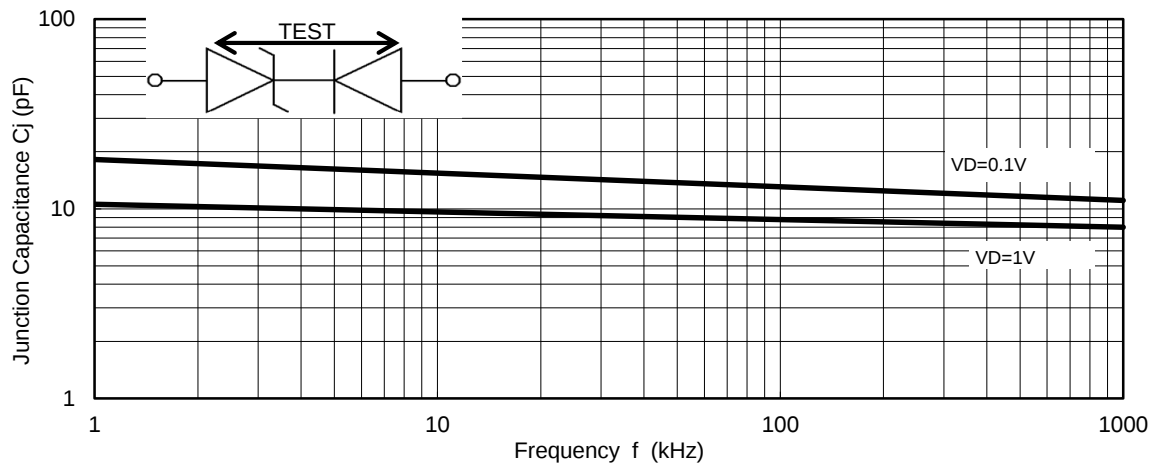


Fig.1 - Junction Capacitance

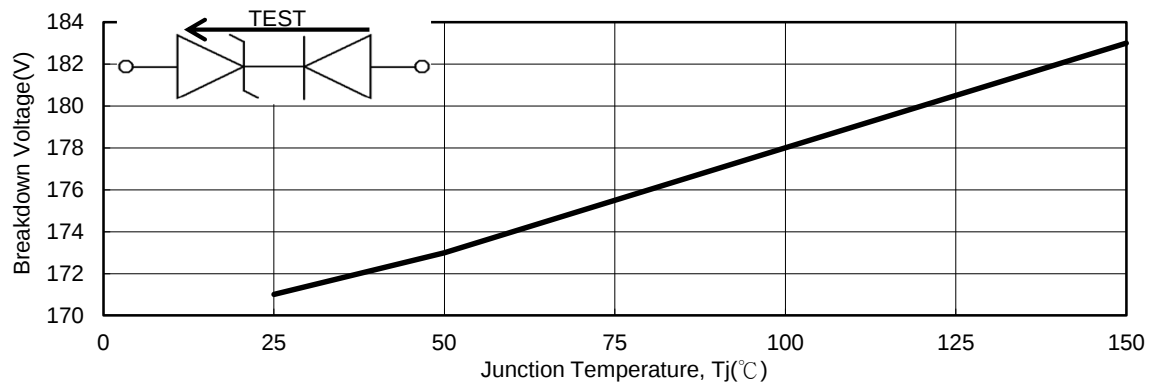


Fig.2 - Breakdown Voltage

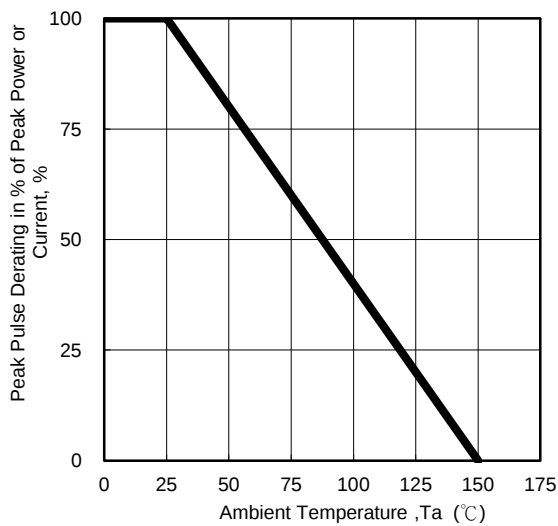


Fig.3 - Pulse Derating Curve

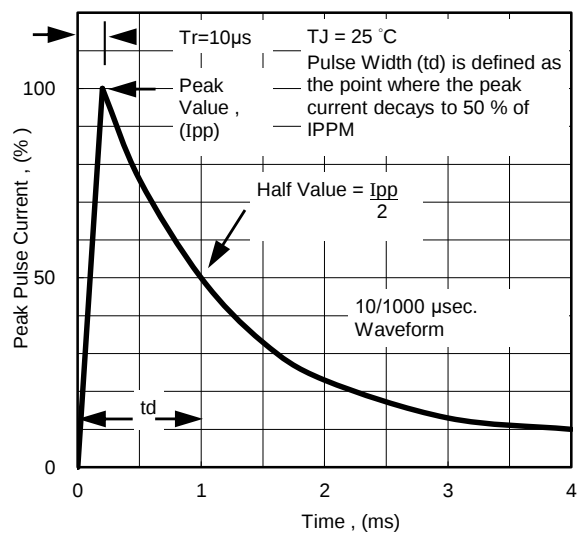


Fig.4 - Pulse Waveform