

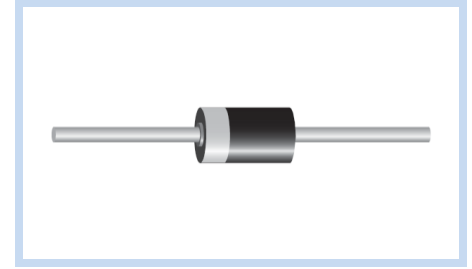
Transient Voltage Suppressors 500W DO-15

SAC-E Series

MERITEK

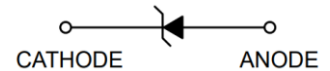
FEATURE

- IEC 61000-4-2 ESD: $\pm 30\text{kV}$ (Air), $\pm 30\text{kV}$ (Contact)
- 500W Peak Pulse Power (10/1000 μs Waveform)
- 5V to 50V Standoff Voltage
- Excellent Clamping Capability
- Glass Passivated Junction
- UL Flammability Classification Rating 94V-0
- UL Safety Approved Certification No: E223045



MECHANICAL DATA

- Case: DO-15, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Color Band Denotes Cathode End



MAXIMUM RATINGS

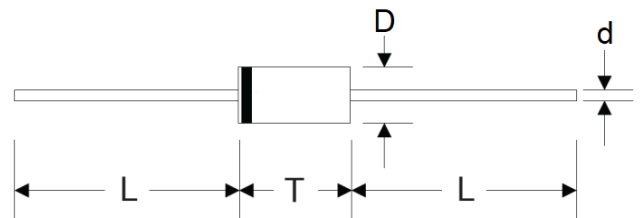
Parameter	Symbol	Value	Unit
Peak Power Dissipation With A 10/1000 μs Waveform	P_{PPM}	Minimum 500	W
Peak Pulse Current on 10/1000 μs Waveform	I_{PPM}	See Table	A
Steady State Power Dissipation at $T_L = 75^\circ\text{C}$	$P_{M(AV)}$	3.0	W
IEC 61000-4-2 ESD (Air)	V_{ESD}	± 30	kV
IEC 61000-4-2 ESD (Contact)	V_{ESD}	± 30	kV
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

Note:

1. $T_A = 25^\circ\text{C}$ ambient temperature unless otherwise specified.
2. Non-repetitive current pulse, and derated above $T_A = 25^\circ\text{C}$.

DIMENSIONS

DO-15	Min(mm)	Max(mm)
D	0.71	0.84
T	5.85	7.63
L	25.4	-
d	2.60	3.61



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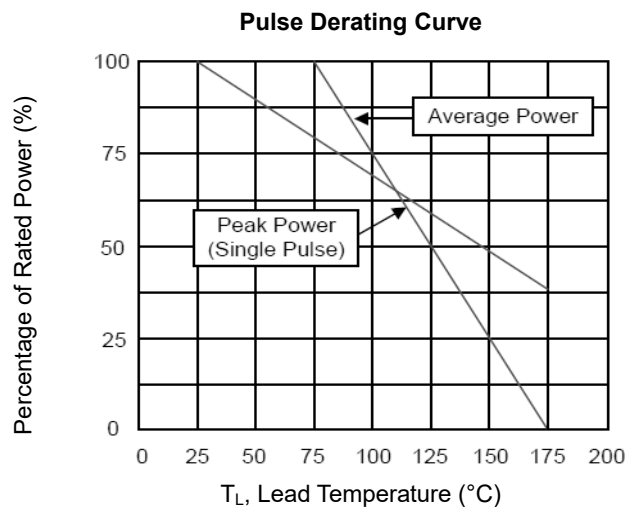
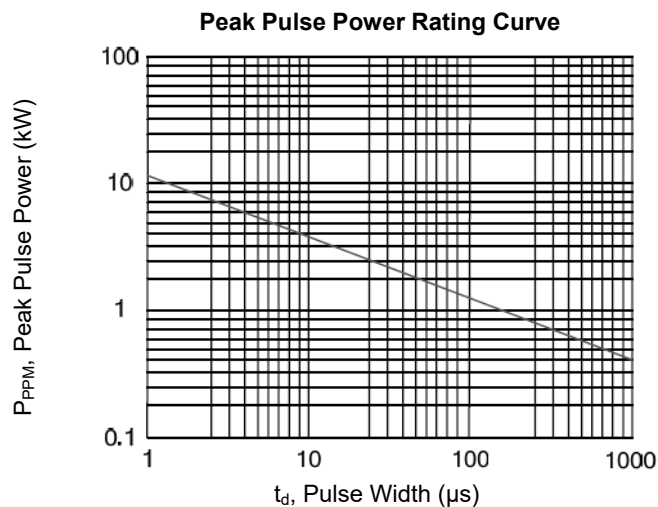
ELECTRICAL CHARACTERISTICS

Part Number	Working Reverse Voltage	Reverse Breakdown Voltage @ $I_T=1\text{mA}$	Max Reverse Leakage Current @ V_{RWM}	Max Clamping Voltage @ I_{PP}	Reverse Surge Current	Max Junction Capacitance @ 0V	Working Inverse Blocking Voltage	Peak Inverse Blocking Voltage
	V_{RWM} (V)	V_{BR} Min(V)	I_R (uA)	V_C (V)	I_{PP} (A) Max	C_J (pF)	V_{WIB} (V)	V_{PIB} (V)
SAC5.0-E	5.0	7.60	300	10.0	44.0	50	75	100
SAC6.0-E	6.0	7.90	300	11.2	41.0	50	75	100
SAC7.0-E	7.0	8.33	300	12.6	38.0	50	75	100
SAC8.0-E	8.0	8.89	100	13.4	36.0	50	75	100
SAC8.5-E	8.5	9.44	50	14.0	34.0	50	75	100
SAC10-E	10.0	11.10	5	16.3	29.0	50	75	100
SAC12-E	12.0	13.30	5	19.0	25.0	50	75	100
SAC15-E	15.0	16.70	5	23.6	20.0	50	75	100
SAC18-E	18.0	20.00	5	28.8	15.0	50	75	100
SAC22-E	22.0	24.40	5	35.4	14.0	50	75	100
SAC26-E	26.0	28.90	5	42.3	11.1	50	75	100
SAC30-E	30.0	33.30	5	48.6	10.0	50	75	100
SAC36-E	36.0	40.00	5	60.0	8.6	50	75	100
SAC45-E	45.0	50.00	5	77.0	6.8	50	150	200
SAC50-E	50.0	55.50	5	88.0	5.8	50	150	200

Note:

- $T_A = 25^\circ\text{C}$ ambient temperature unless otherwise specified.
- Inverse blocking leakage current I_{IB} at $V_{WIB}=1\text{mA}$.

CHARACTERISTIC CURVES

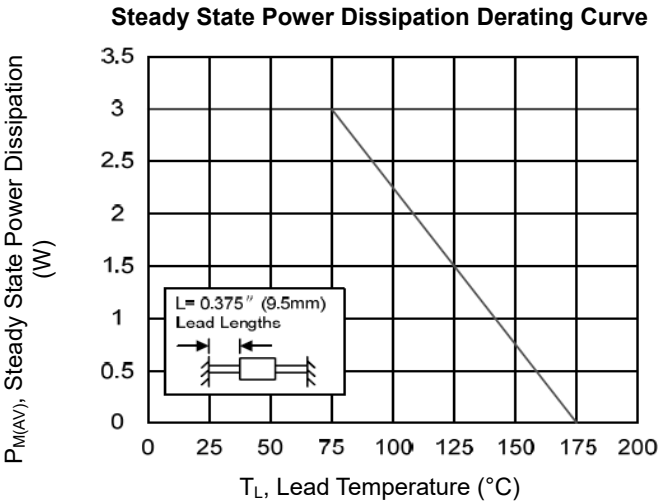
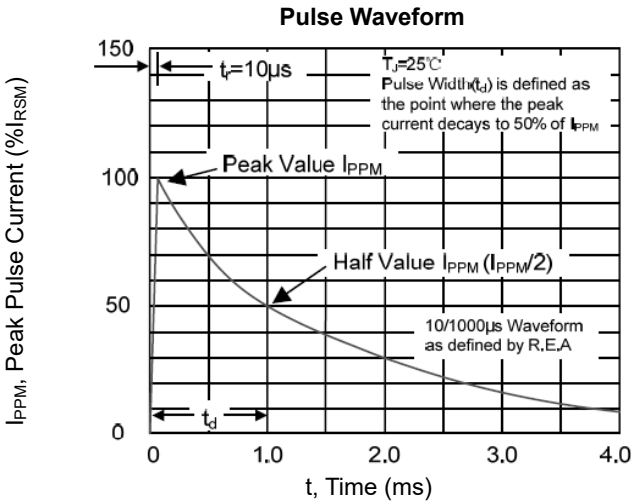


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CHARACTERISTIC CURVES



*Specifications subject to change without notice.