

Transient Voltage Suppressors

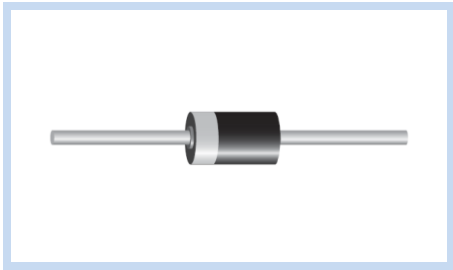
500W DO-15

SAC Series

MERITEK

FEATURE

- 500W Peak Pulse Power (10/1000µs Waveform)
- 5V to 50V Standoff Voltage
- Fast Response Time
- 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

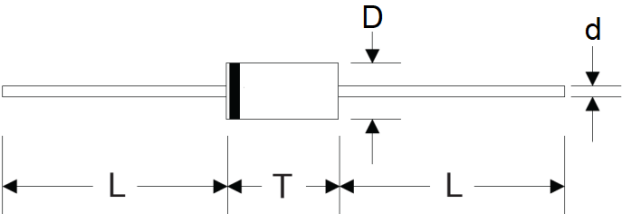
Parameter	Symbol	Value	Unit
Peak Power Dissipation With A 10/1000µs Waveform	P_{PPM}	Minimum 500	W
Peak Pulse Current on 10/1000µs Waveform	I_{PPM}	See Table	A
Steady State Power Dissipation at $T_L = 75^{\circ}C$	P_D	3.0	W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^{\circ}C$

Note:

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

DIMENSIONS

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



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ELECTRICAL CHARACTERISTICS

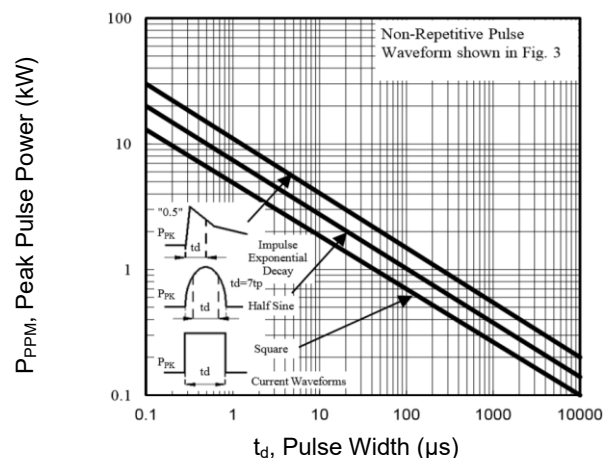
Part Number	Working Reverse Voltage	Reverse Breakdown Voltage @ $I_T=1\text{mA}$	Max Reverse Leakage Current @ V_{RWM}	Max Clamping Voltage @ I_{PP}	Reverse Surge Current	Max Junction Capacitance @0V	Working Inverse Blocking Voltage	Peak Inverse Blocking Voltage
	V_{RWM} (V)	V_{BR} Min(V)	I_R (uA)	V_C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

Note:

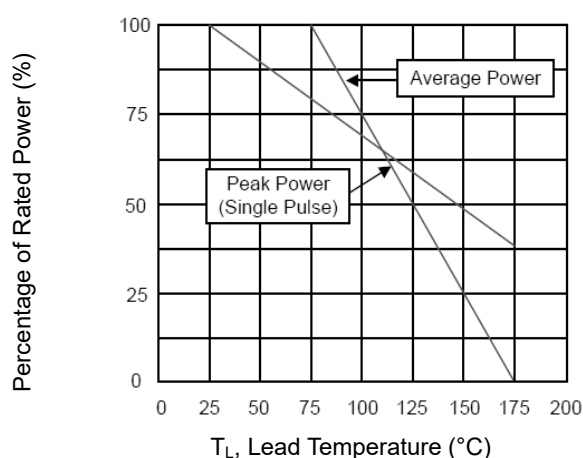
1. T_A at 25°C ambient temperature unless otherwise specified.
2. Inverse blocking leakage current I_{IB} at $V_{WIB}=1\text{mA}$.

CHARACTERISTIC CURVES

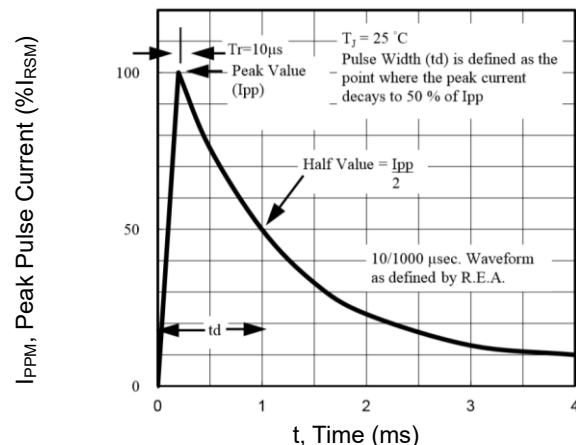
Peak Pulse Power Rating Curve



Pulse Derating Curve



Pulse Waveform



*Specifications subject to change without notice.