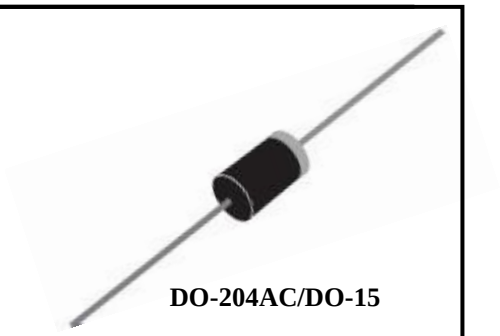
FEATURES



DO-204AC/DO-15

- Glass passivated junction.
- 500W Peak Pulse Power capability at1.0 ms
- Excellent clamping capability.
- Low incremental surge resistance.
- Fast response time; typically lessthan 1.0 ps from 0 volts to BV forunidirectional and 5.0 ns forbidirectional.
- Typical I_R less than 1.0 ∝A above 10V.

MECHANICAL DATA

- Case: Molded plastic
- Lead: Pure tin plated lead free, solderable per MIL-STD-750, Method 2026.
- Polarity : Color band denotes cathode except bipolar.
- Weight : 0.34 gram.

DEVICES FOR BIPOLAR APPLICATIONS

- Bidirectional types use CA suffix.
- Electrical Characteristics apply in both directions.

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

Type Number	Symbol	Value	Units
Peak Power Dissipation at T_A= 25°C, T_p= 1ms (Note 1)	P_{PPM}	Minimum 500	Watts
Steady State Power Dissipation at T_L= 75°C Lead Lengths 0.375 Inch 9.5mm (Note 2)	P_D	3.2	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) (Note 3)	I_{FSM}	70	Amps
Maximum Instantaneous Forward Voltage at 35A for Unidirectional Only (Note 4)	V_F	3.5 / 5.0	Volts
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to + 175	°C

Notes: Notes: 1. Non-repetitive current pulse and derated above T_A= 25°C.

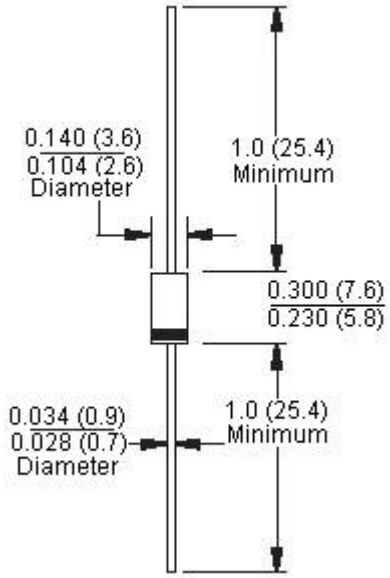
2. Mounted on copper pad area of 1.6 x 1.6 inch (40 x 40mm) per.

3. 8.3ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minutes maximum.

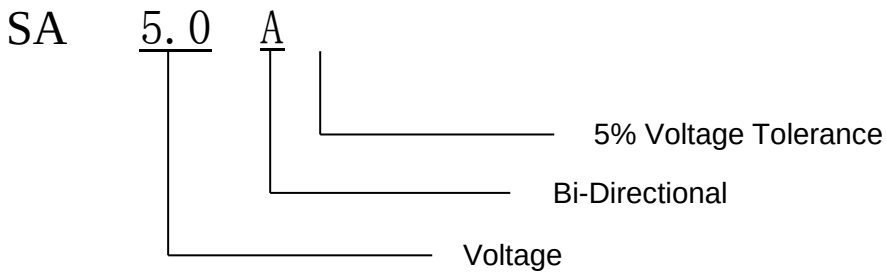
4. V_F= 3.5V for devices of V_{BR}δ 200V and V_F= 5.0V maximum for devices of V_{BR}>200V.

PACKAGE DIMENSIONS

DO-204AC/DO-15



ORDERING INFORMATION



PACKAGING

Part Number	Component Package	Quantity
SA5.0A	DO-204AC/DO-15	2000

ELECTRICAL CHARACTERISTICS

SA DEVICES	REVERSE STAND-LFF VOLTAGE V_{RWM}(v)	BREAKDOWN VOLTAGE Min.@I_T V_{BR} Min.(V)	BREAKDOWN VOLTAGE Max.@I_T V_{BR} Max.(V)	TEST CURRENT I_T(mA)	MAXIMUM CLAMPING VOLTAGE @I_{pp} V_C(V)	PEAK PULSE CURRENT I_{pp}(A)	REVERSE LEAKAGE @V_{RWM} I_R(uA)
SA5.0A	5.00	6.40	7.25	10	9.2	55.4	1000

TYPICAL CHARACTERISTICS

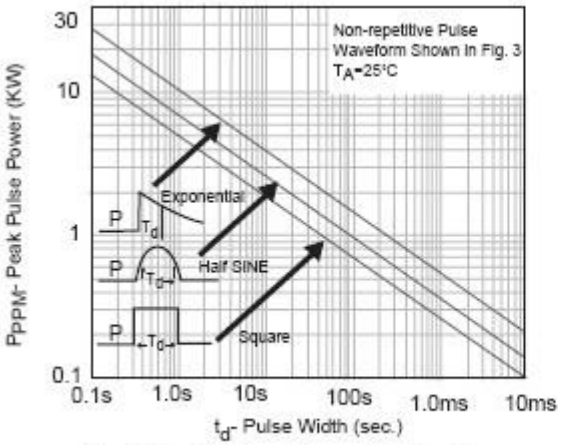


Fig. 1 Peak Pulse Power Rating Curve

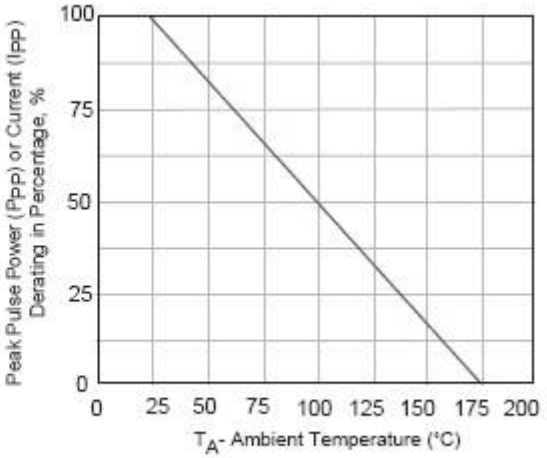


Fig. 2 Pulse Derating Curve

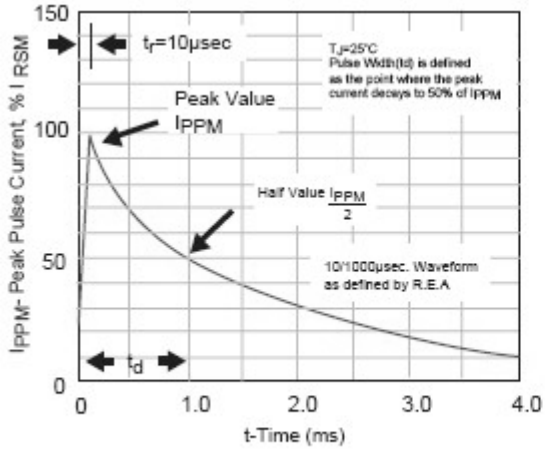


Fig. 3 Pulse Waveform

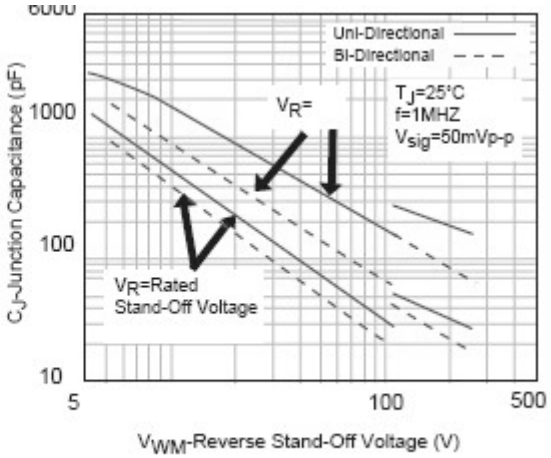


Fig. 4- Typical Junction Capacitance

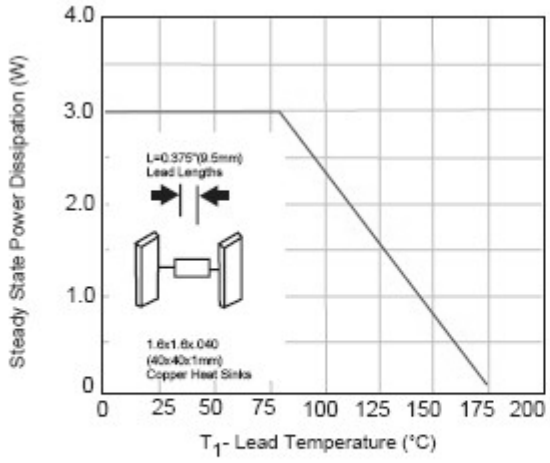


Fig. 5 Steady State Power Derating Curve

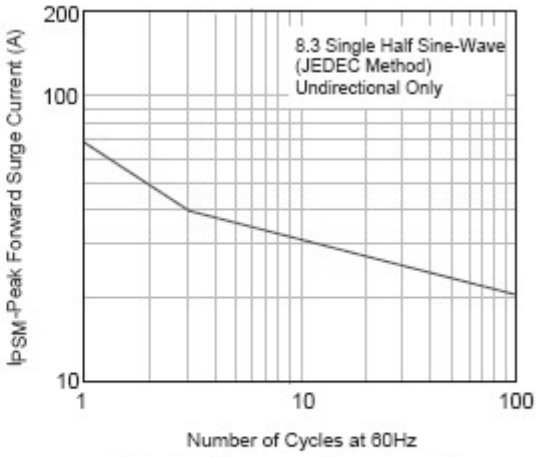


Fig. 6- Maximum Non-Repetitive Forward Surge Current Uni-Directional Only

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