SA5.0A

DO-204AC/DO-15



FEATURES

- 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	10/000	
Steady State Power Dissipation at T_L = 75°C Lead Lengths 0.375 Inch 9.5mm (Note 2)	PD	3.2	Watts	
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)	VF	3.5 / 5.0	Volts	
Operating and Storage Temperature Range	Tj, Tstg	-55 to + 175	°C	

Notes: Notes: 1. Non-repetitive current pulse and derated above $T_A = 25^{\circ}C$.

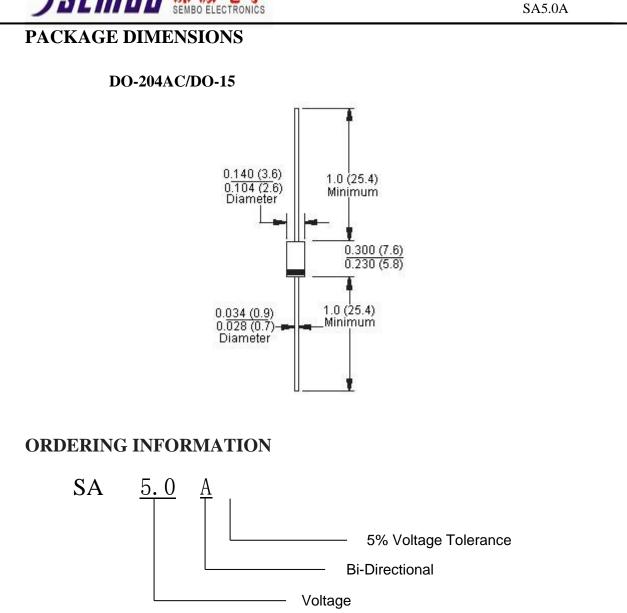
2. Mounted on copper pad area of 1.6 x 1.6 inch (40 x 40mm) per.

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.

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PACKAGING

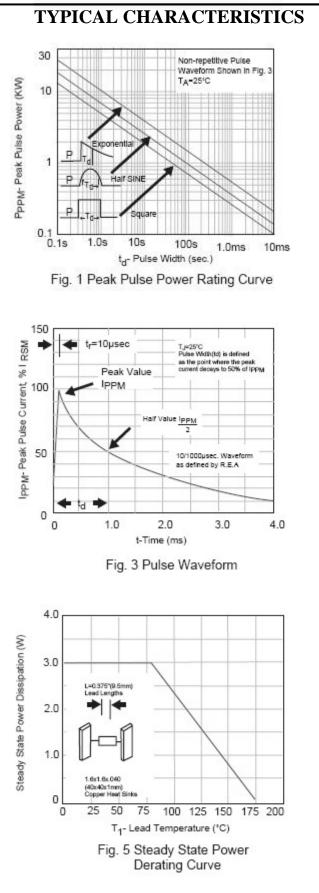
Part Number	Component Package	Quantity	
SA5.0A	DO-204AC/DO-15	2000	

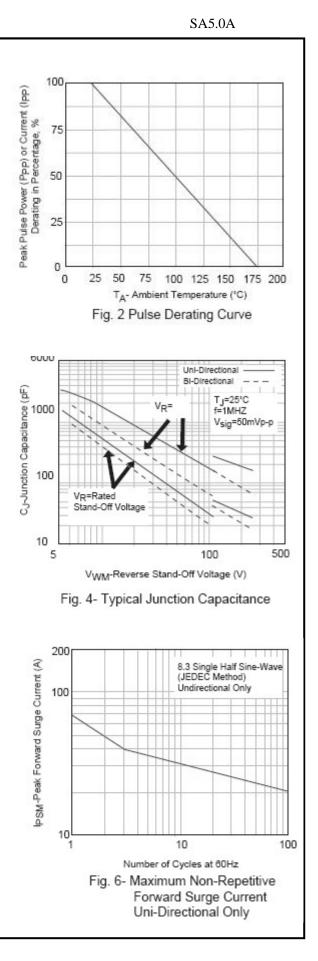
ELECTRICAL CHARACTERISTICS

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 @ _{1pp} 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

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