P6SMB16A(CA)

SURFACE MOUNT TRANSIENT VOLTAGE SUPPESSOR DIODE

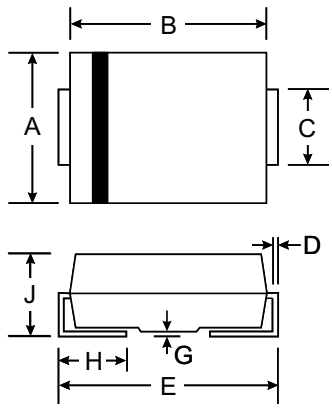
Features

- Glass Passivated Die Construction
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)

RoHS COMPLIANT



SMB(DO-214AA)		
Dim	**Min**	**Max**
A	3.30	3.94
B	4.06	4.70
C	1.91	2.21
D	0.15	0.31
E	5.00	5.59
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation (Non repetitive current pulse derated above T_A = 25°C) (Note 1)	P_{PK}	600	W
Peak Forward Surge Current, 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) (Notes 1, 2, & 3)	I_{FSM}	100	A
Instantaneous Forward Voltage @ I_{PP} = 35A V_{BR}<100V (Notes 1, 2, & 3) V_{BR}≥100V	V_F	3.5 5.0	V V
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150	°C

Notes: 1. Valid provided that terminals are kept at ambient temperature.

2. Measured with 8.3ms single half sine-wave. Duty cycle = 4 pulses per minute maximum.

3. Unidirectional units only.

TYPE		Marking		Reverse Stand-Off Voltage	Breakdown Voltage Min. @I_T	Breakdown Voltage Max. @ I_T	Test Current	Maximum Clamping Voltage @I_{PP}	Peak Pulse Current	Reverse Leakage @V_{RWM}
(UNI)	**(BI)**	**(UNI)**	**(Bi)**	**V_{RWM}(V)**	**$V_{BR\ MIN}$(V)**	**$V_{BR\ MAX}$(V)**	**I_T (mA)**	**V_C(V)**	**I_{PP}(A)**	**I_R(uA)**
P6SMB16A	P6SMB16CA	LK	BK	13.6	15.2	16.8	1.0	22.5	26.7	5.0

Ratings and Characteristic Curves T_A =25°C unless otherwise noted

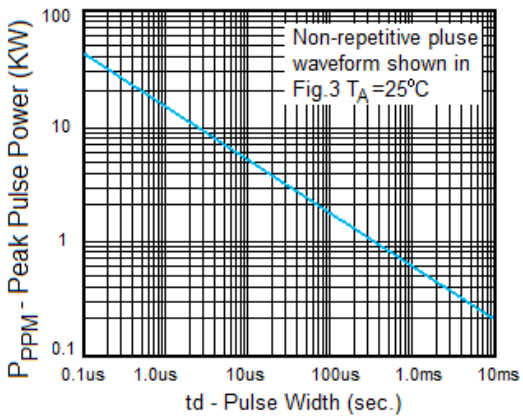


Fig. 1 Peak Pulse Power Rating

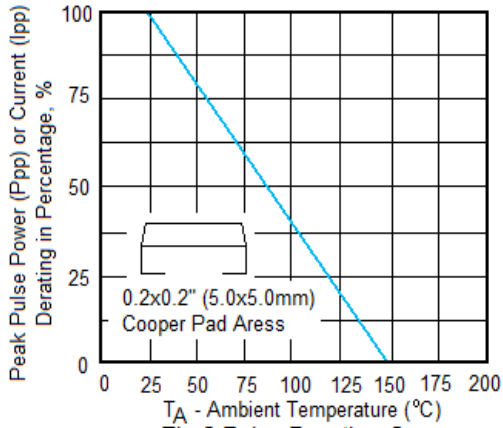


Fig.2 Pulse Derating Cure

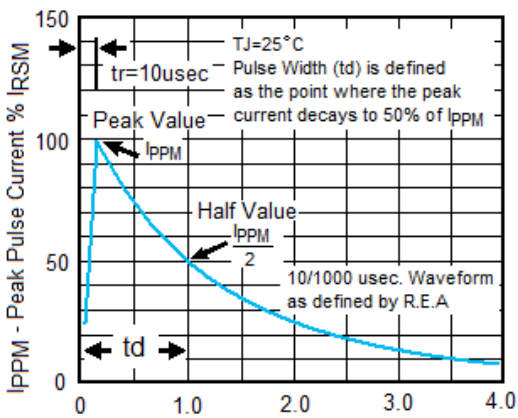


Fig.3 Pulse Waveform

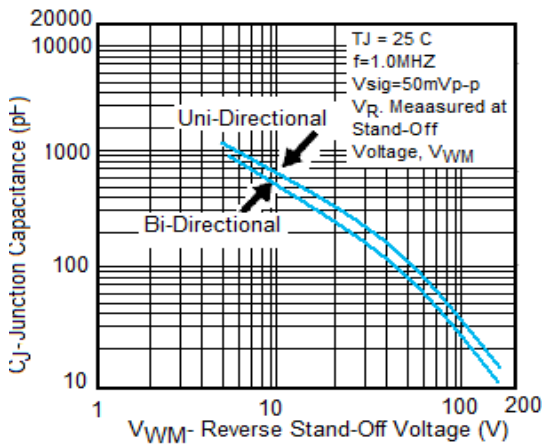


Fig. 4- Typical Junction Capacitance

单击下面可查看定价，库存，交付和生命周期等信息

>>SUNMATE(森美特)