

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

P6SMBJ58A

Features

For surface mounted applications in order to optimize board space.

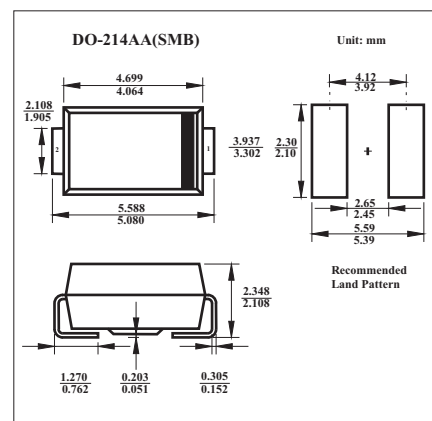
Low profile package

Built-in strain relief

Glass passivated junction

Excellent clamping capability

Low inductance

Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Ratings	Units
Peak Power Dissipation at $T_a=25^\circ\text{C}$, $T_P=1\text{ms}$ (Note 1,2)	PPM	Minimum 600	W
Peak Forward Surge Current (Note 2,3)	I_{FSM}	100	A
Peak Pulse Current Current on 10/1000 μs waveform (Note 1)	I_{PPM}	See Table	A
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics $T_a = 25^\circ\text{C}$

Part Number	Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current
	V_{RWM}	$V_{BR} @ I_T$		I_T	$I_R @ V_{RWM}$	$V_C @ I_{PP}$	I_{PP}
		Min.	Max.				
	V	V	V	mA	μA	V	A
P6SMBJ58A	58	64.4	74.1	1.0	5	93.6	6.4

NOTES:

1.Non-repetitive current pulse, per Fig. 3 and derated above $T_a=25^\circ\text{C}$ per

2.Mounted on 5.0mm² (.013mm thick) land areas.

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

Marking

Marking	NG
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Typical Characteristics

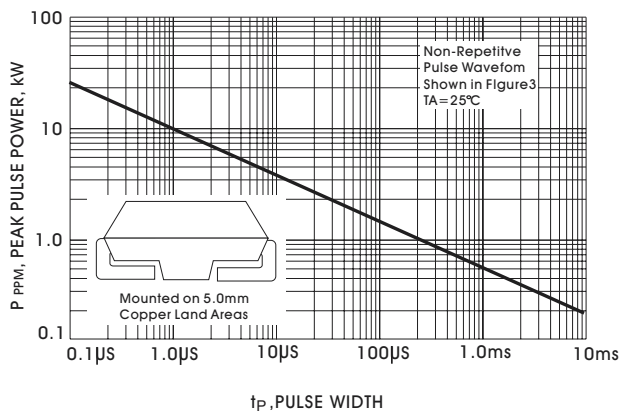


Figure 1, Peak Pulse Power Rating Curve

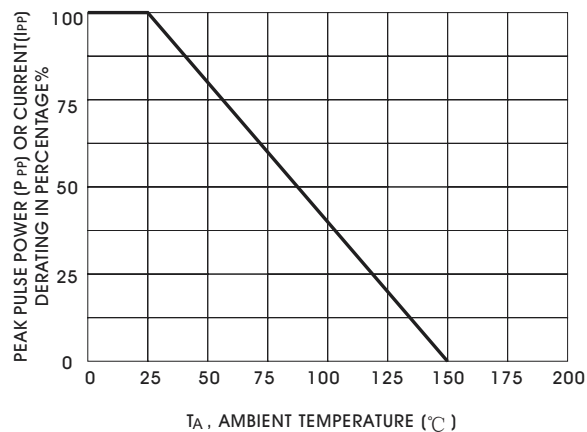


Figure 2, Derating Curve

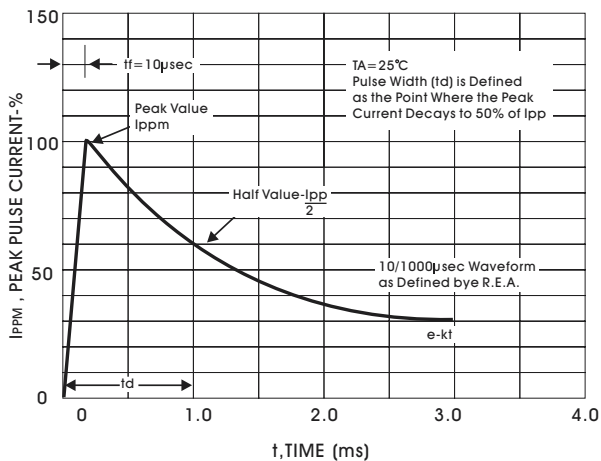


Figure 3, Pulse Waveform

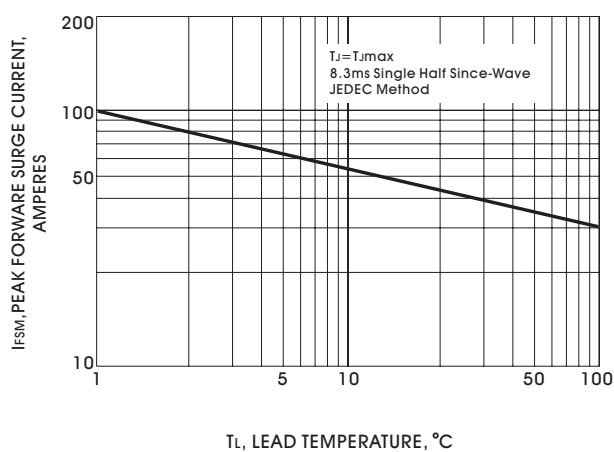


Figure 4, Maximum Non-Repetitive Peak Forward Surge Current

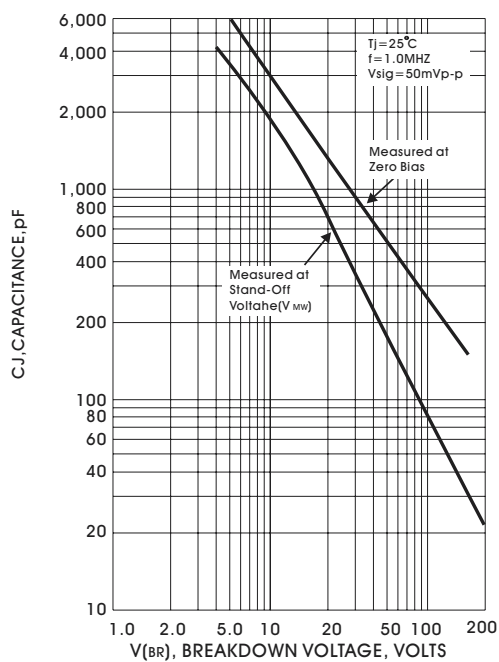


Figure 5, Typical Capacitance