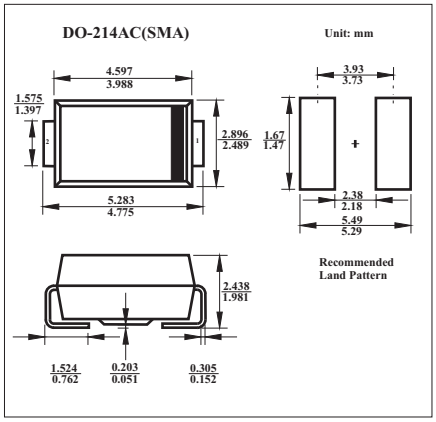
SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

P4SMAJ17A

■ 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 Ta = 25℃

Parameter	Symbol	Ratings	Units
Peak Power Dissipation at T_A=25℃, T_P=1ms (Note 1,2,5)	P_{PPM}	Minimum 400	W
Steady State Power Dissipation (Note 3)	$P_{M(AV)}$	1	W
Peak Forward Surge Current (Note 4)	I_{FSM}	40	A
Peak Pulse Current Current on 10/1000μs waveform (Note 1,2,5)	I_{PPM}	See Table	A
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150	℃

■ Electrical Characteristics Ta = 25℃

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
P4SMAJ17A	17	18.9	21.7	1.0	5	27.6	14.5

NOTES:

1. Non-repetitive current pulse and derated above T_A = 25℃
2. Mounted on 5.0mm^2 copper pad to each terminal.
3. lead temperature at 75℃.
4. 8.3ms single half sine-wave, duty cycle= 4 pulses per minutes maximum.
5. Peak pluse power waveformis 10/1000μS.

■ Marking

Marking	IR

P4SMAJ17A

■ Typical Characteristics

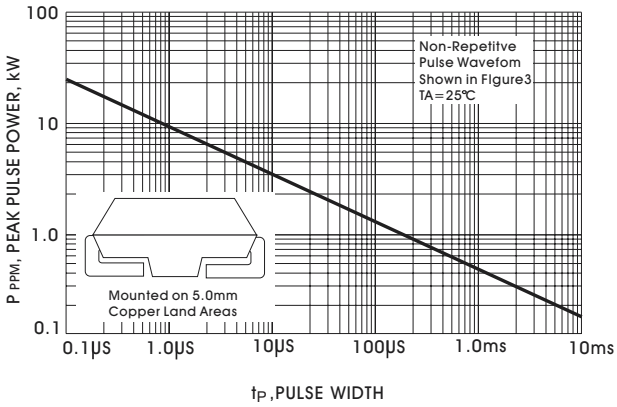


Figure 1,Peak Pulse Power Rating Curve

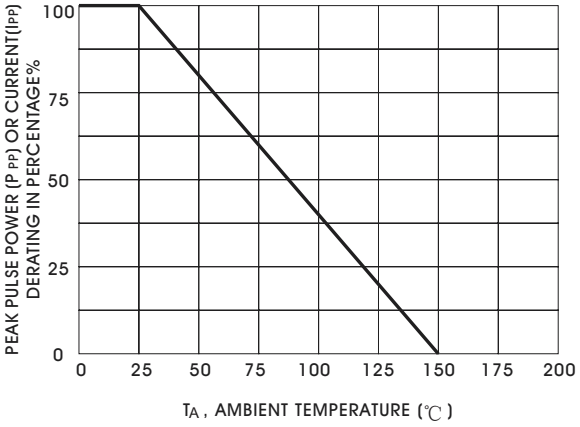


Figure 2,Derating Curve

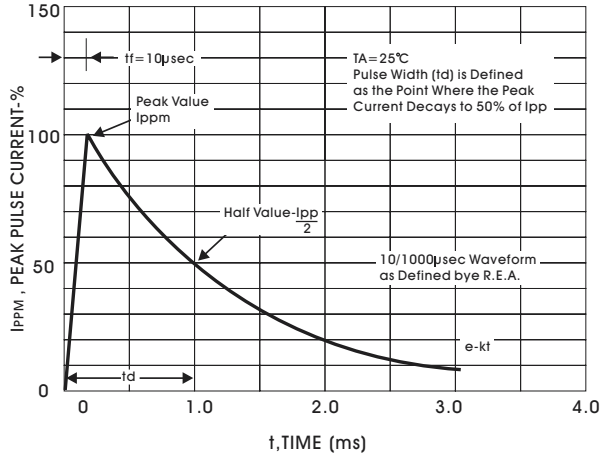


Figure 3,Pulse Waveform

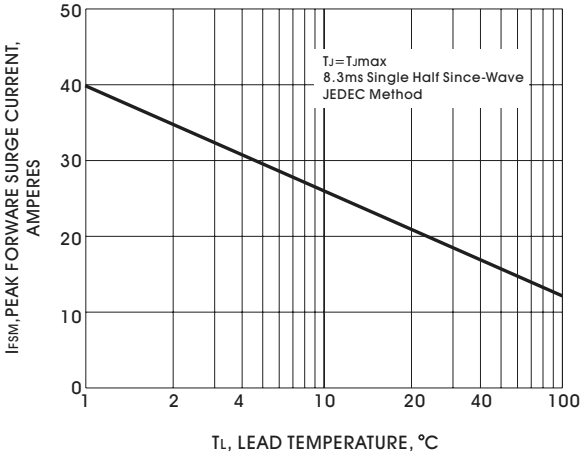


Figure 4,Maximum Non-Repetitive Peak Foward Surge Current

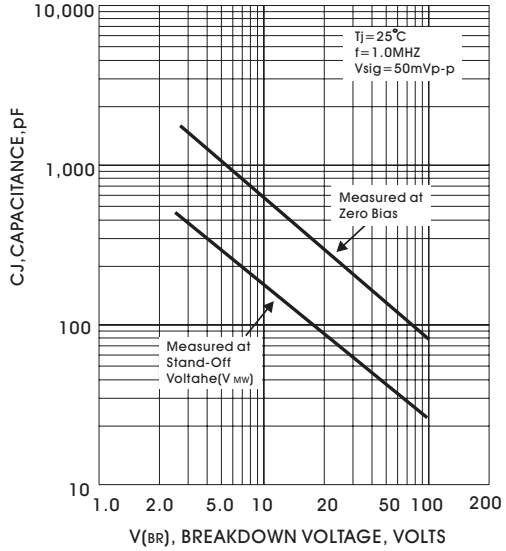


Figure 5,Typical Capacitance