



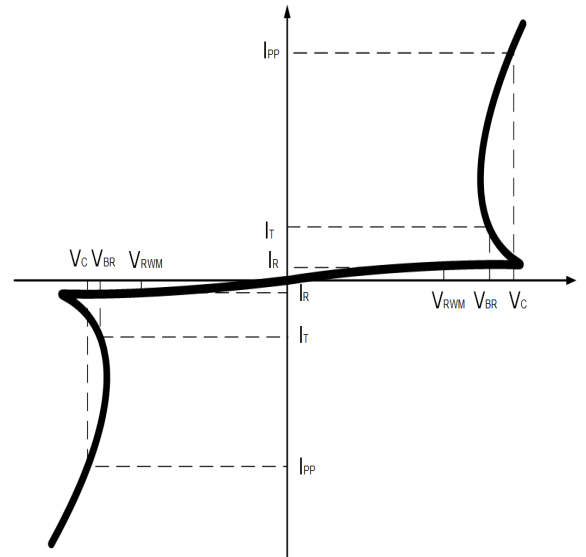
## Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified).

Type Number	Marking	Reverse Stand-Off Voltage	Breakdown Voltage Min. @I <sub>T</sub>	Breakdown Voltage Max. @ I <sub>T</sub>	Test Current	Maximum Clamping Voltage@I <sub>PP</sub>			Peak Pulse Current	Reverse Leakage @V <sub>RMW</sub>
3.0SMBJ58CAS	3.0SMBJ58CAS	V <sub>RMW</sub> (V)	V <sub>BR MIN</sub> (V)	V <sub>BR MAX</sub> (V)	I <sub>T</sub> (mA)	V <sub>C</sub> (V)			I <sub>PP</sub> (A)	I <sub>R</sub> (uA)
		58	64.4	71.2	1.0	48(min)	60(typ)	93(max)	32.1	2

## I - V Curve Characteristics

Parameter	Definition
C <sub>J</sub>	Junction Capacitance - typical capacitance measured with 0V or V <sub>R</sub> bias
I <sub>PP</sub>	Peak Pulse Current - maximum rated peak impulse current
V <sub>C</sub>	Clamping Voltage - Peak voltage measured across the suppressor at a specified I <sub>ppm</sub> (peak impulse current)
V <sub>BR</sub>	Breakdown Voltage - Maximum voltage that flows through the TVS at a specified test current (I <sub>T</sub> )
I <sub>R</sub>	Leakage Current - maximum peak off-state current measured at V <sub>R</sub>
V <sub>R</sub>	Peak Off-state Voltage - maximum voltage that can be applied while maintaining off state



## Ratings and Characteristic Curves

(Ratings at 25°C ambient temperature unless otherwise specified).

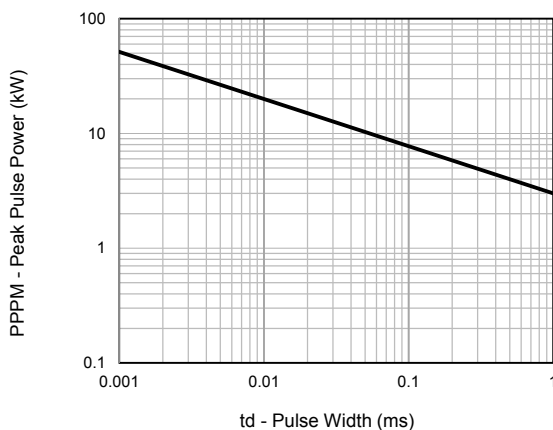


Fig.1 - Peak Pulse Power Rating

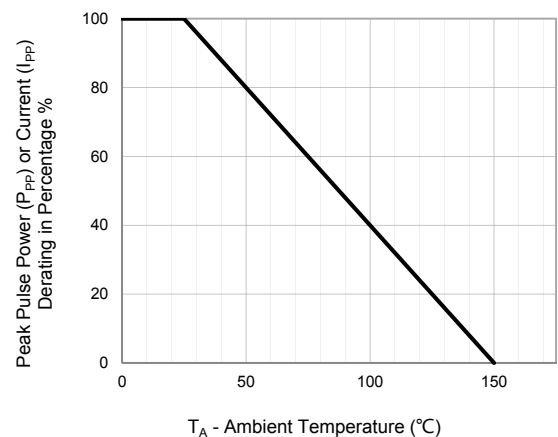


Fig.2 - Pulse Derating Curve

## Ratings and Characteristic Curves

(Ratings at 25°C ambient temperature unless otherwise specified).

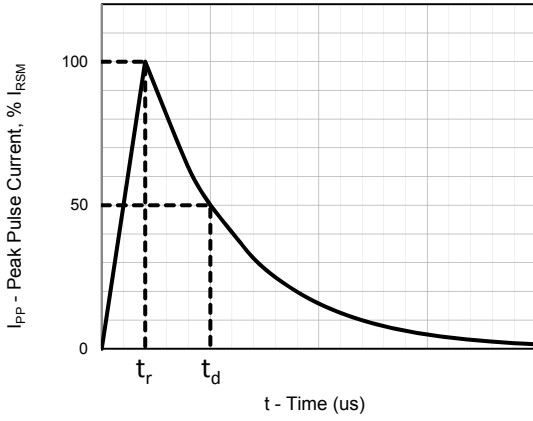


Fig.3 - Pulse Waveform

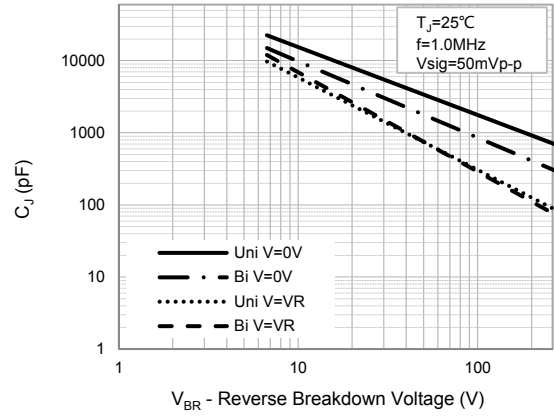


Fig.4 - Typical Junction Capacitance

## Package Outline Dimensions: SMB(DO-214AA)

Dim	Millimeters		Inches	
	Min	Max	Min	Max
L	4.4	4.6	0.173	0.181
D	3.5	3.7	0.138	0.146
D1	1.9	2.1	0.075	0.083
T	5.1	5.48	0.201	0.216
T1	1.0	1.6	0.039	0.063
d	-	0.2	-	0.008
H	2.2	2.45	0.087	0.096
H1	2.15	2.35	0.085	0.093