



PROTECTION THYRISTORS P4200SC

Surge Protection Device

Features

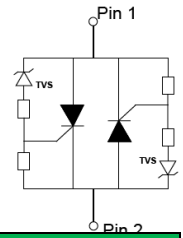
- Surge protection capability
- High power capacity 6000V@10/700μS voltage waveform
- High protection voltage
- Fast response time
- Bi-directional protection device
- High temperature soldering guaranteed: 260°C/ 10 seconds at terminals
- RoHS and REACH compliance

Main Applications

- Audio/Video line
- Network and telecom
- Data lines and security systems
- Serial ports



DO-214AA (SMB)



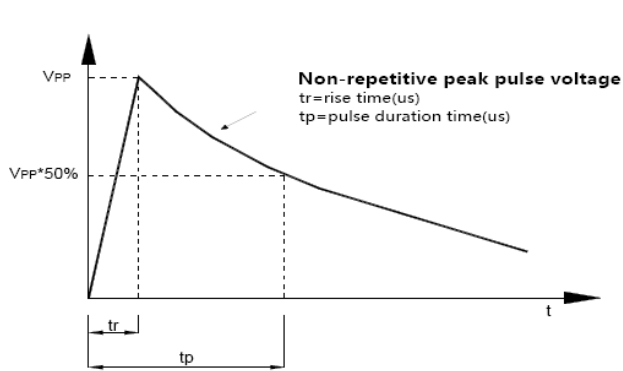
Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	P4200SC	Unit	Conditions
V_{PP}	Peak Pulse Voltage	6000	V	10/700μS
I_{PP}	Peak Pulse Current	100	A	10/1000μS
I_S	Breakover Current	100	mA	
T_J	Operating Temperature Range	-40 to +125	°C	
T_{STG}	Storage Temperature Range	-40 to +125	°C	

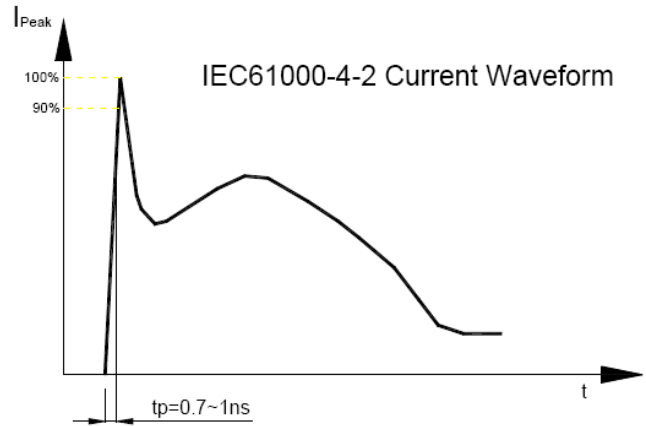
Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Min.	Typ.	Max.	Unit	Conditions
V_{RWM}	Reverse Working Voltage			500	V	
V_{BR}	Reverse Breakdown Voltage	400		15	V	I _T =1mA
I_R	Reverse Leakage Current			3	μA	V _{BR} =405V
I_H	Hold Current			50	mA	
C_J	Junction Capacitance			35	pF	2V,1MHz

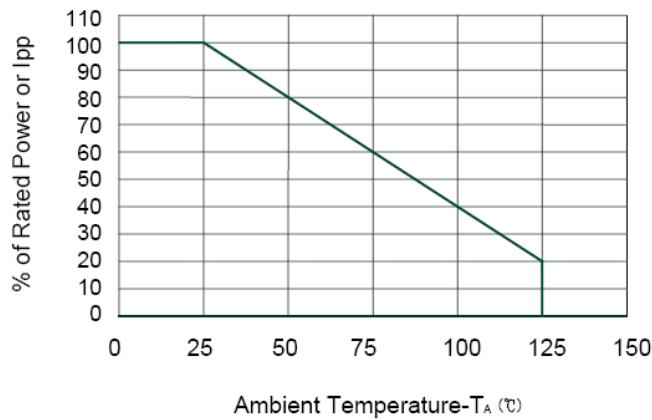
Typical Characteristics Curves



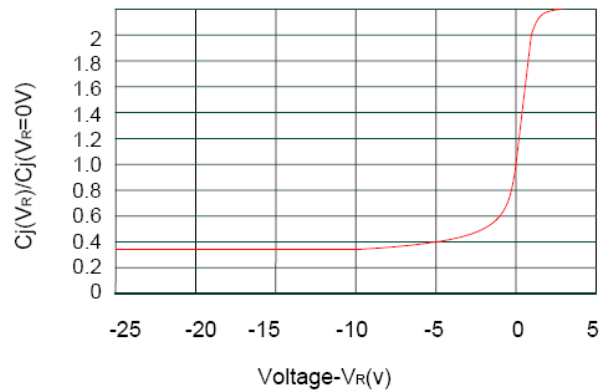
Pulse Waveform



ESD Discharge IEC61000-4-2 Current Waveform

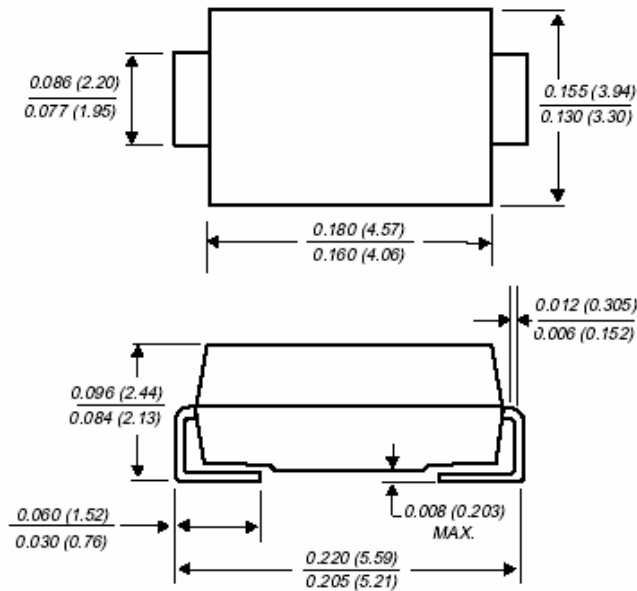


Power Derating Curve



Junction Capacitance vs. Reverse Voltage

Dimensions in inch (mm)



Dimensions in inches and (millimeters)

DO-214AA(SMB)

Contact us:

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