



PROTECTION THYRISTORS SPE6.5

Surge & ESD Protection Device

Features

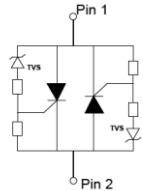
- Surge & ESD protection capability
- High power capacity 6000V@10/700μS voltage waveform
- Low protection voltage
- Fast response time
- Bi-directional protection device
- High temperature soldering guaranteed: 260°C/ 10 seconds at terminals
- RoHS and REACH compliance



DO-214AA (SMB)



RoHS
COMPLIANT



Main Applications

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

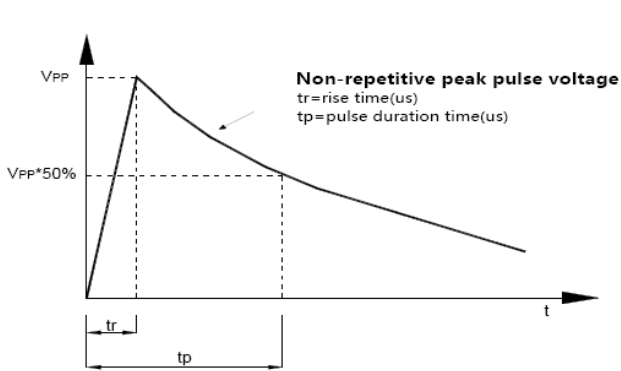
Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	SPE6.5	Unit	Conditions
	Peak Voltage Pulse	6000	V	10/700μS
	ESD Rating: Contact	8	KV	
	ESD Rating: Air	15		
T_L	Lead Soldering Temperature	260	°C	10 Sec.
T_J	Operating Temperature Range	-55 to +150	°C	IF=0.5A, IR=1.0A, IRR=0.25A
T_{STG}	Storage Temperature Range	-55 to +150	°C	

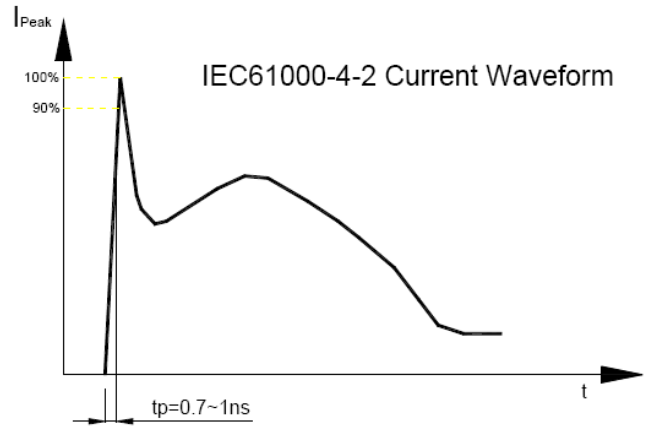
Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Min.	Typ.	Max.	Unit	Conditions
V_{RWM}	Reverse Working Voltage		6.5		V	
V_{BR}	Reverse Breakdown Voltage	6.5		15	V	IT=1mA
I_R	Reverse Leakage Current			3	μA	VRWM=6.5V
I_H	Hold Current	50		400	mA	
C_J	Junction Capacitance			120	pF	2V,1MHz

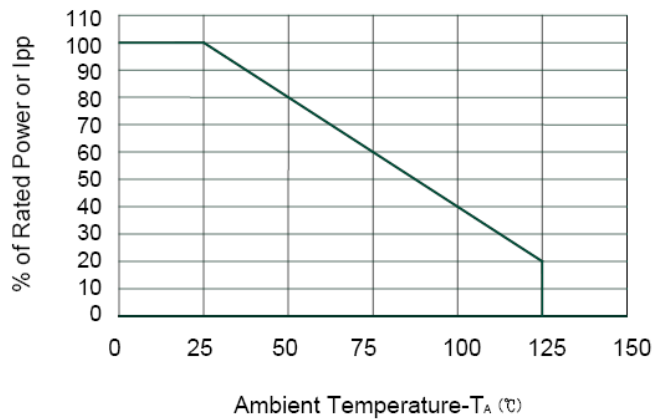
Typical Characteristics Curves



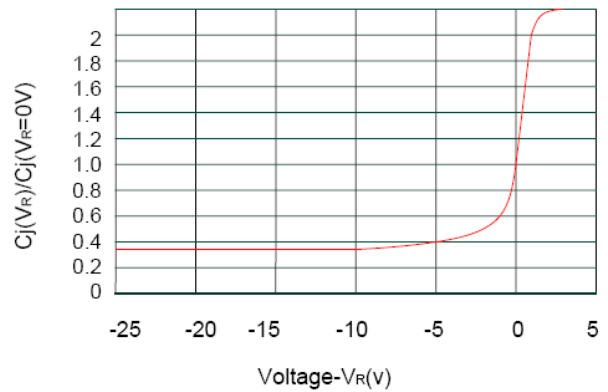
Pulse Waveform



ESD Discharge IEC61000-4-2 Current Waveform

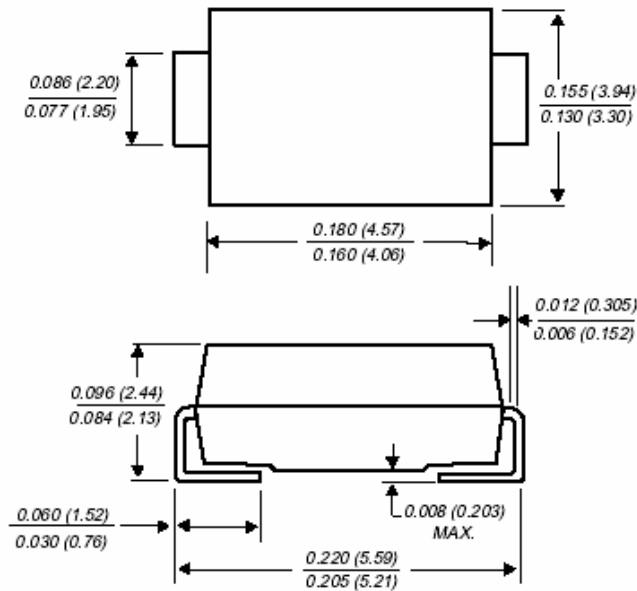


Power Derating Curve



Junction Capacitance vs. Reverse Voltage

Dimensions in inch (mm)

*Dimensions in inches and (millimeters)***DO-214AA(SMB)****Contact us:****US HEADQUARTERS**

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