Surge & ESD Protection Device

Applications

• Audio/Video line

• Network and telecom

• Data lines and security systems

• Serial ports

Features

• IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact)

• IEC 61000-4-5 (SURGE) 10/700us>4KV Vc<20V

• Low protection voltage

• Fast response time

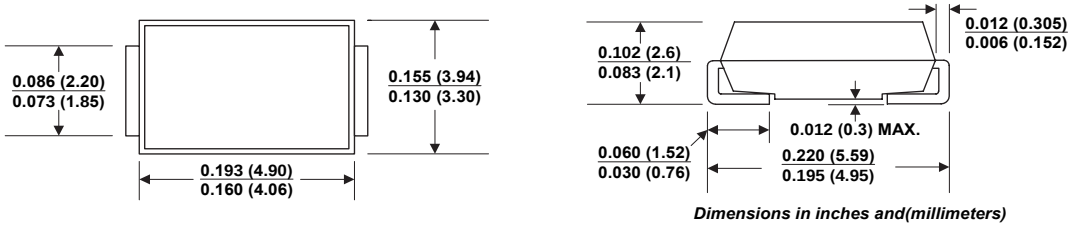
• Bi-directional protection device

• High temperature soldering guaranteed: 260℃/ 10 seconds at terminals

• RoHS compliance

Package

DO-214AA (SMB J-Bend)



Dimensions in inches and(millimeters)

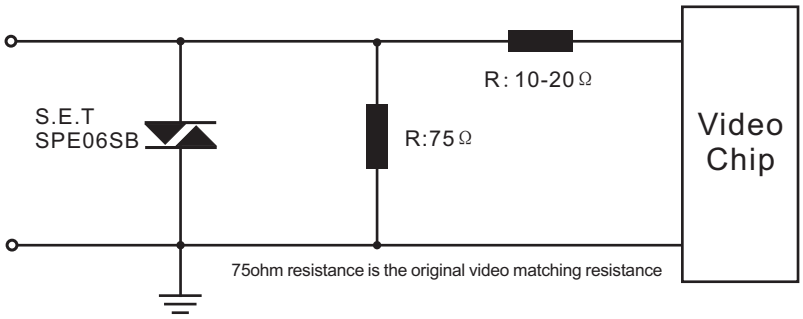
Maximum Ratings *(T Ambient=25ºC unless noted otherwise)*

Rating	Symbol	Value	Units
Termal Resistance:Junction to Ambient	$R_{\theta JA}$	90	°C/W
Operating Junction Temperature Range	T_J	-40 to +150	°C
Storage Temperature Range	T_S	-65 to +150	°C

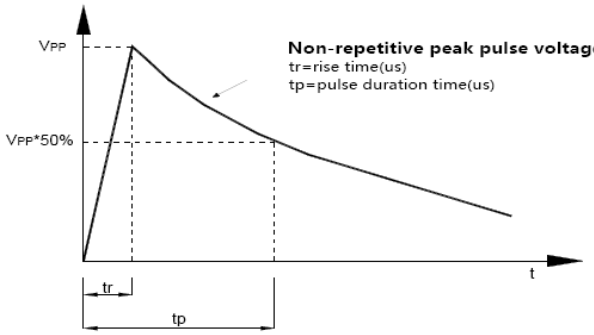
Electrical Characteristics *(T Ambient=25ºC unless noted otherwise)*

Symbol	Min.	Typ.	Max.	Unit	Conditions
V_{RWM} Reverse Working Voltage		6.5		V	
V_{BR} Reverse Breakdown Voltage	8.0		15	V	I_T=1mA
I_R Reverse Leakage Current			3	μA	V_{RWM}=6.5V
I_H Hold Current	50		400	mA	
C_J Junction Capacitance		120		pF	2V,1MHz

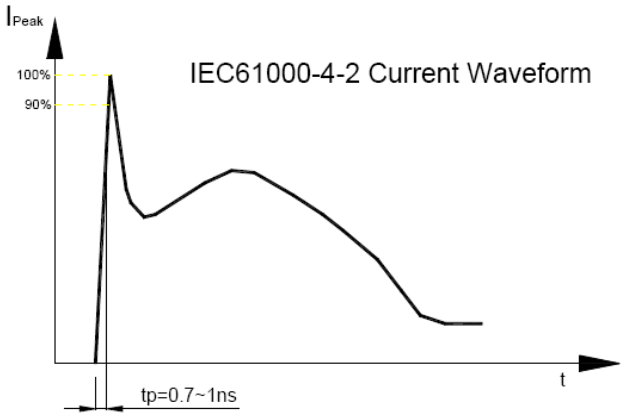
Typical application circuit



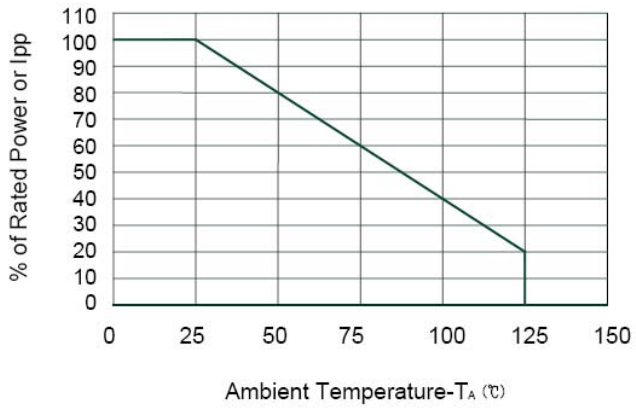
Typical Characteristics Curves



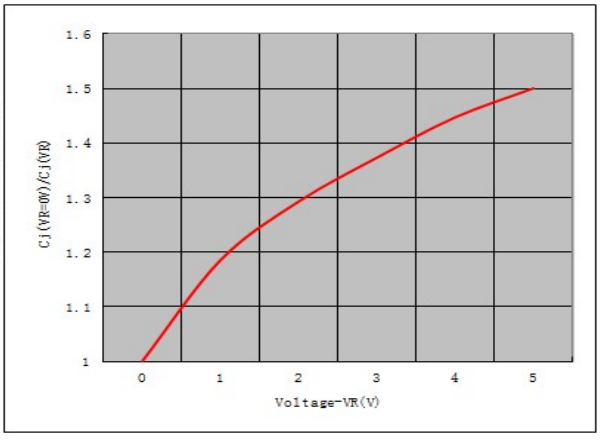
Pulse Waveform



ESD Discharge IEC61000-4-2 Current Waveform



Power Derating Curve



Junction Capacitance vs. Reverse Voltage