

Applications

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

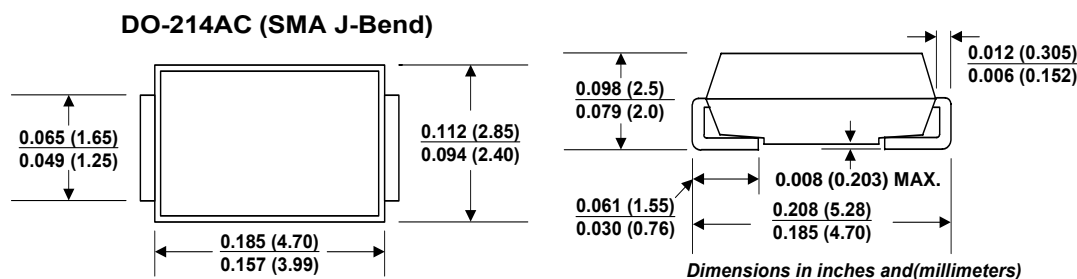
Surge & ESD Protection Device



Features

- IEC 61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- IEC 61000-4-5 (SURGE) $10/700\mu\text{s} > 4\text{kV}$ $V_c < 20\text{V}$
- Low protection voltage
- Fast response time
- Bi-directional protection device
- High temperature soldering guaranteed: $260^\circ\text{C} / 10$ seconds at terminals
- RoHS compliance

Package



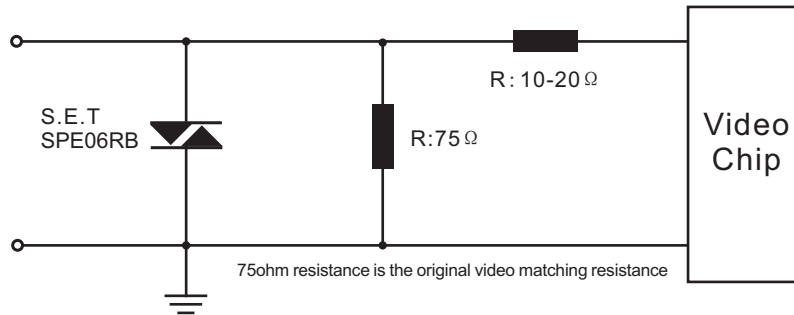
Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

Rating	Symbol	Value	Units
Thermal Resistance: Junction to Ambient	R _{BJA}	90	°C/W
Operating Junction Temperature Range	T _J	-40 to +150	°C
Storage Temperature Range	T _S	-65 to +150	°C

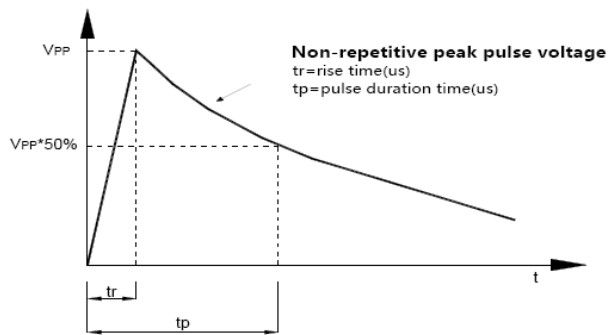
Electrical Characteristics *(T_{Ambient}=25°C unless noted otherwise)*

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		80		pF	2V, 1MHz

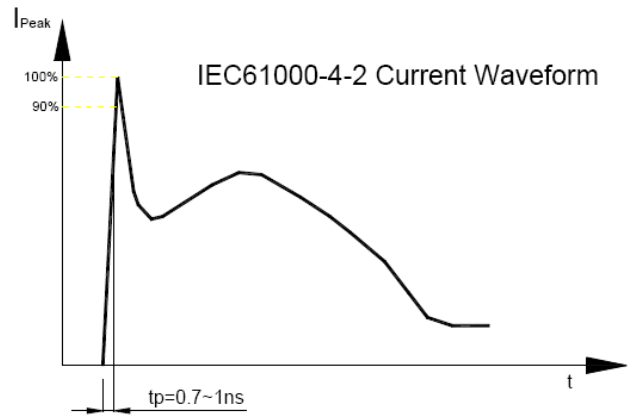
Typical application circuit



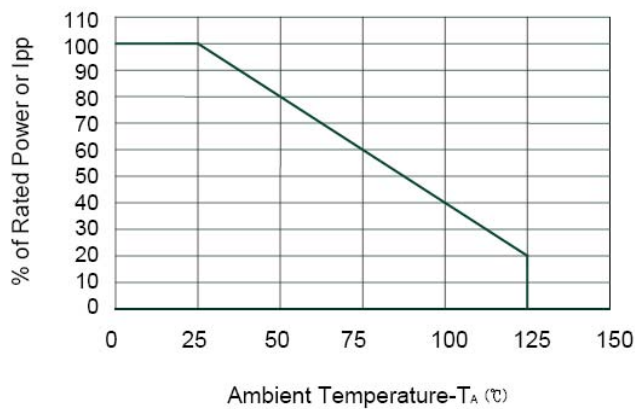
Typical Characteristics Curves



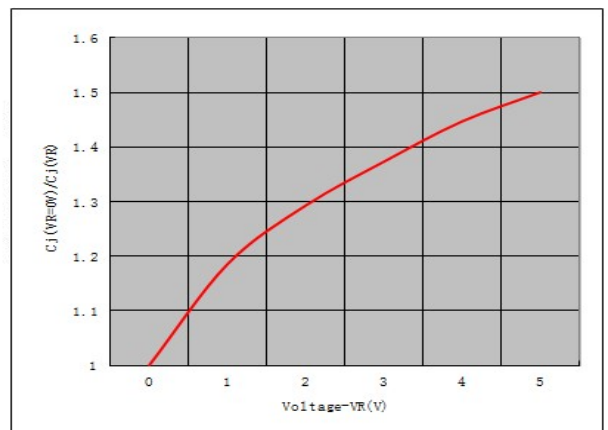
Pulse Waveform



ESD Discharge IEC61000-4-2 Current Waveform



Power Derating Curve



Junction Capacitance vs. Reverse Voltage