

SMA6J12A -



Series: SMA6J

Littelfuse TVS Diode SMA6J Series

600W Surface Mount Transient Voltage Suppressors in SMA Package

The SMA6J series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events.

Features:

Low profile package

Same power as standard SMB devices (600 W)

For surface mounted applications to optimize board space

600W peak pulsepower capability at 10x1000µs waveform, repetition rate (duty cycle):0.01%

Low inductance, excellent clamping capability Fast response time:typically less than 1.0ns from 0 Volts to V_{BR} min

Typical I_R less than 1µA above 12V

Built-in strain relief

Glass passivated junction

High temperature soldering: 260°C/10 seconds at terminals

Typical maximum temperature coefficient $\Delta V_{BR} = 0.1\% \times V_{BR@25^\circ C} \times \Delta T$

Plastic package has Underwriters Laboratory Flammability 94V-0

Matte tin lead-free plated

Halogen free and RoHS compliant

Electrical Characteristics

Property (Mouseover for details)	Value
Reverse Standoff Voltage (V_R) (V_{SO})	12
Watts (W)	600
Peak Pulse Current (I_{pp}) 10x1000 (A)	30.2
Breakdown Voltage (MIN $V_{BR@I_T}$) (V)	13.3
Breakdown Voltage ($V_{BR@I_T}$) (V)	14.7
$I_r @ V_{SO}$ (µA)	50
On-State Current (I_T) (mA)	1
Max Temperature (deg C)	150
Max Clamp Voltage (V_c) (V)	19.9