



# ESD Protection Diodes

## Single- and Two-Line ESD Protection in a Common Anode Configuration

### FEATURES

Single-line and two-line ESD protection diodes

Working range  $V_{RWM}$ : 3.3 V to 36 V

Peak pulse power: up to 540 W

ESD immunity:  $\pm 30$  kV

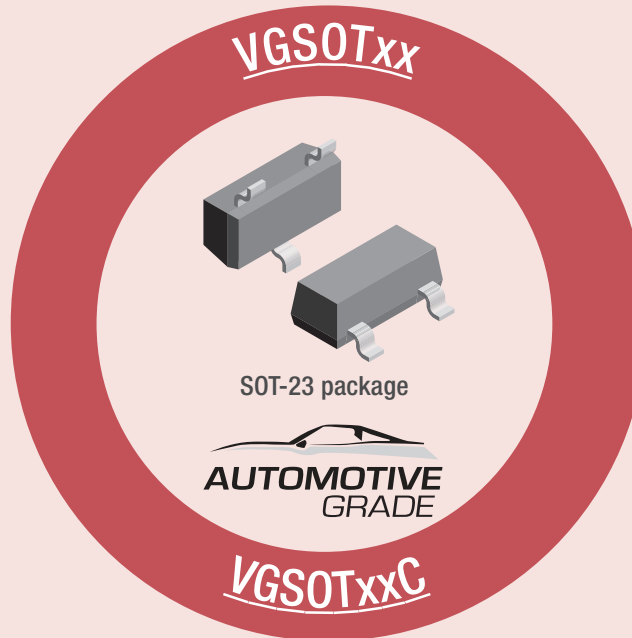
Operating temperature range

**-55 °C to +150 °C**

### ADVANTAGES

- Low thermal resistance
- Extended current and power ratings
- Low clamping voltage
- Low dynamic resistance

### MODES/PLACEMENT



**Direct drop-in replacement**  
for Vishay's GSOT (GEN1 technology) series  
and other competitors' SOT series.

### APPLICATIONS



AUTOMOTIVE



CONSUMER



TELECOM



INDUSTRIAL



COMPUTER



MEDICAL

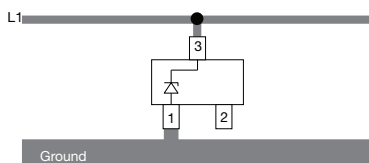
### DOUBLE POWER

In order to "double" the surge power or peak pulse current, pin 1 and 2 of the VGSOTxxC can be connected. This offers:

- Double the surge power = double the peak pulse current ( $2 \times I_{PPM}$ )
- Half of the line inductance = reduced clamping voltage
- Half of the line resistance = reduced clamping voltage
- Double the line capacitance ( $2 \times C_D$ )
- Double the reverse leakage current ( $2 \times I_R$ )

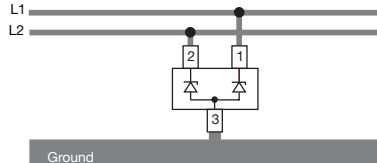
**VGSOTxx**

Single-Line Unidirectional



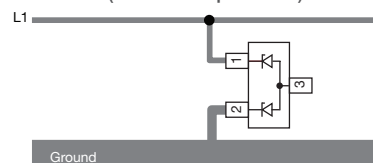
**VGSOTxxC**

Two-Line Unidirectional



**VGSOTxxC**

Single-Line Bidirectional  
(With Half Capacitance)



**VGSOTxxC**

Single-Line Unidirectional With Double Power

