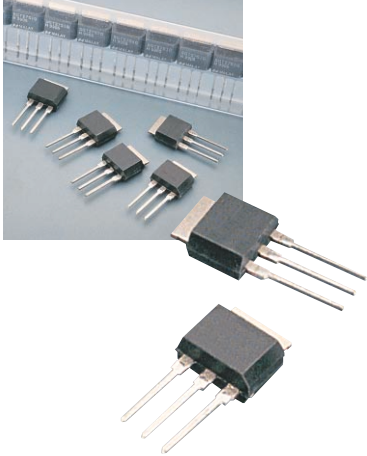


Surgeor™ Transient Voltage Suppressors

SGT (TO-202) Series



Features

Bidirectional Surge Suppressors: (SGT 23B13, SGT 27B13, SGT 27B27)

- Constructed with a thyristor whose gate contains a special diffused section which acts as a zener diode
- Zener diode section permits anode voltage turn on of the structure
- Packaging: Modified TO-202

Unidirectional Surge Suppressors: (SGT 03U13, SGT 06U13, SGT 23U13)

- Offers unidirectional clamping action
- Designed to protect telecommunications equipment, data links, and other sensitive electrical circuits from damage by transients, lightning strikes, load changes, and power line crosses
- Packaging: Modified TO-202

Gate Controlled Unidirectional Surge Suppressors: (SGT 27S10, SGT 27S23)

- Fast turn-on, high holding current thyristors
- Provides excellent voltage limiting, even on very fast rise time transients, when coupled with a user supplied voltage level detector
- High holding current allows for return to a high impedance off state after a transient
- Packaging: Modified TO-202

Specifications

Bidirectional									
Part #	Off-State Current (max) @25°C	Off-State Current (max) @85°C	Reverse Current @25°C	Reverse Current @85°C	Clamping Voltage (min/max)	Breakover Voltage	Holding Current	On-State Voltage	Main Terminal Capacitance
SGT 27B27	200nA	100µA	—	—	270V/325V	345V	270mA	2V	80pF
SGT 23B13	200nA	100µA	—	—	230V/270V	240V	130mA	2V	50pF
SGT 27B13	200nA	100µA	—	—	270V/325V	345V	130mA	2V	50pF
Unidirectional									
SGT 03U13	50nA	10µA	1mA	10mA	33V/ —	50V	130mA	2V	90pF
SGT 06U13	50nA	10µA	1mA	10mA	60V/ —	85V	130mA	2V	90pF
SGT 23U13	50nA	10µA	1mA	10mA	230V/ —	275V	130mA	2V	90pF
Gate Controlled Unidirectional									
SGT 27S10	100nA	50µA	—	—	—	285V	100mA	2V	90pF
SGT 27S23	100nA	50µA	—	—	—	285V	230mA	2V	90pF

Ordering Information

SGT 10 S 10

