

THE SMALLEST SQUARED GDT WITH A 5 KA 8/20µs SURGE CAPABILITY IN THE MARKET TODAY



The **SH Series Gas Discharge Tube (GDT)** is designed to provide high levels of protection against fast-rising transients caused by lightning disturbances. It is offered in a squared surface mount package (5.0 × 5.0 × 4.2 mm) with a 5 kA surge capability and a ≤ 0.7 pF off-state capacitance value.

FEATURES

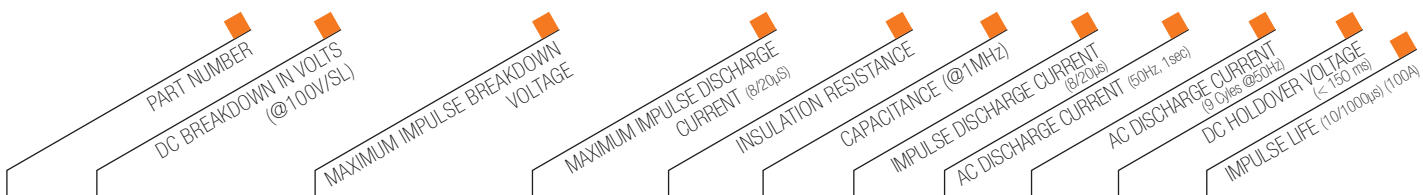
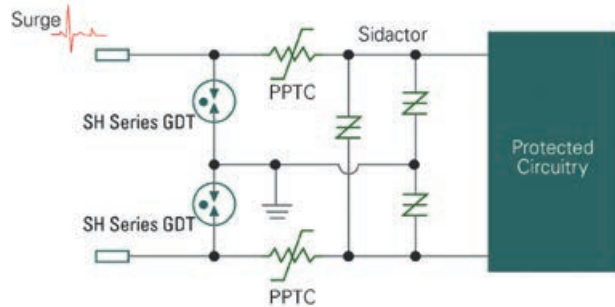
- 5 kA surge capability in minimal footprint (5.0 × 5.0 × 4.2 mm)
- Ultra-low capacitance (< 0.7 pF) that does not vary as the signal voltage varies
- Surface mount form factor with squared body and terminals

APPLICATIONS

- G.Fast, xDSL, 10 GbE, and 10/100/1000 BaseT Ethernet port protection
- Satellite, CATV equipment and set top boxes
- Coaxial cable
- Ethernet, RS-485, RS-232, etc. interfaces
- Broadband equipment
- General telecom equipment
- Industrial automation
- Power Inverter/Variable Frequency Drivers (VFDs)

BENEFITS

- Ideal for high surge, high-density layout applications such as radio base station power and cable modems
- Minimizes insertion losses and demodulation to be compatible with high speed, wide bandwidth applications such as G. Fast and xDSL equipment
- Simplifies the pick and place process during the automated PCB manufacturing



ELECTRICAL CHARACTERISTICS

	COMPONENT SPECIFICATIONS (AT 25°C)						LIFE RATINGS							
	MIN	TYP	MAX	@100V/µs	1000V/µs	1Time	MIN	MAX	MAX	MIN	MIN		MIN	
SH75	60	75	90	600	700		1GΩ						52V	
SH90	72	90	108	600	700		@50V						52V	
SH145	116	145	174	600	700				10 Shots @ (5kA)				52V	
SH230	184	230	276	600	700								135V	
SH250	200	250	300	600	700		1GΩ						135V	300
SH300	240	300	360	650	800	6 kA	@100V	0.7pf	1 Shot at 135V	5A	15A		135V	
SH350	280	350	420	750	900								135V	
SH400	320	400	480	850	1000				6kA **				135V	
SH470	376	470	564	900	1100		1GΩ						150V	
SH600	480	600	720	1000	1200		@250V						150V	