

THE SMALLEST SQUARED GDT WITH A 5KA 8/20μS SURGE CAPABILITY



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 (5.0×5.0×4.2mm) with a 5kA surge capability and a ≤0.7pF off-state capacitance value.

FEATURES

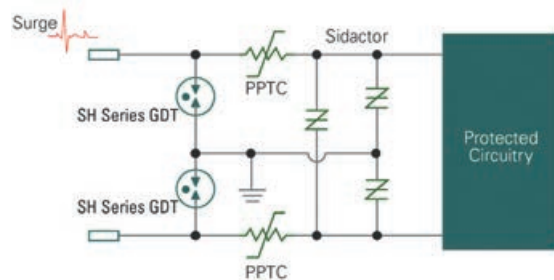
- 5 kA surge capability in minimal footprint (5.0 × 5.0 × 4.2 mm)
- Ultra-low capacitance (< 0.7 pF) that does not vary as the signal voltage varies
- Surface mount form factor with squared body and terminals

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

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)



ELECTRICAL CHARACTERISTICS

	PART NUMBER	DC BREAKDOWN (V)	MAX. IMPULSE BREAKDOWN (V)	MAX. IMPULSE DISCHARGE CURRENT	INSULATION RESISTANCE	CAPACITANCE	IMPULSE DISCHARGE CURRENT	AC DISCHARGE CURRENT	DC HOLDOVER VOLTAGE	IMPULSE LIFE
SH75	90	700			1GΩ @50V				52V	
SH90	108	700						52V		
SH145	174	700						52V		
SH230	276	700						80V		
SH250	300	700						135V		
SH300	360	800		6kA	1GΩ @100V	0,7pf	10 Shots @ (5kA)	15A	135V	300 Shots
SH350	420	900						135V		
SH400	480	1000						135V		
SH470	564	1100						150V		
SH600	720	1200			1GΩ @250V		1 Shot at 6kA		150V	