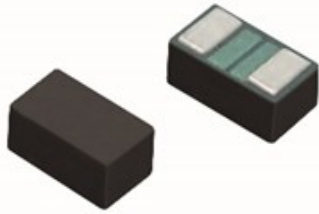


Surface Mount ESD Suppressors

ESD Protection Diode, TS02011C05V3R0



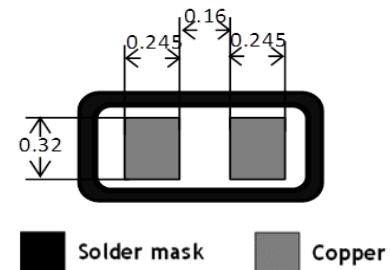
Application:

- Cellular handsets and accessories
- Portable electronics
- Computers and peripherals
- Communication systems
- Audio and video equipment

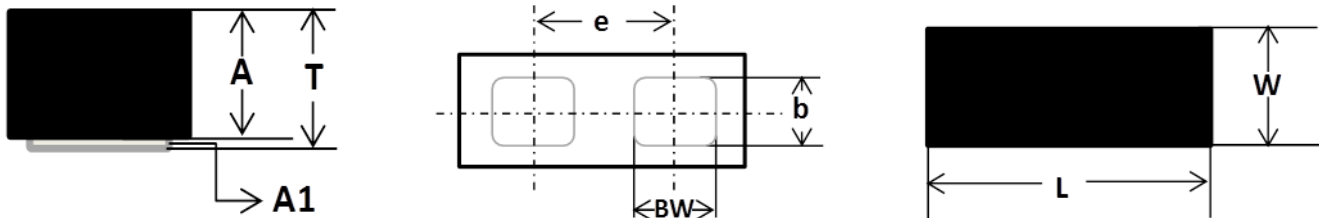
Features:

- Bi-directional ESD protection of one line
- Low capacitance (3 pF typical)
- IEC 61000-4-2, level 4 (ESD) protection
- Ultra small SMD special package (0201)
- Pb-Free, Halogen free/BFR free and RoHS compliant
- Operating temperature range $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- Storage temperature range $-55^{\circ}\text{C}\sim+125^{\circ}\text{C}$

Recommended Foot Print Dimensions:



Shape and Dimensions:



Package	Size inch/(mm)							
	L	W	T	BW	b	e	A	A1
0201 (DFN0603)	0.024±0.002 (0.60±0.05)	0.012±0.002 (0.30±0.05)	0.010±0.002 (0.265±0.05)	0.006±0.002 (0.15±0.05)	0.009±0.002 (0.24±0.05)	0.016 (0.40)	0.010±0.002 (0.26±0.05)	0.0002 (0.005)

Packaging Information:

Package	Tape & Reel Quantity (piece)
0201 (DFN0603)	15,000

Storage Conditions:

Storage Time: 12 months max
 Storage Temperature : 5°C to 30°C
 Relative Humidity: < 60% RH

Surface Mount ESD Suppressors

ESD Protection Diode, TS02011C05V3R0

Electrical Characteristics (@25°C):

Characteristic	Condition	Value		
		Min.	Typical	Max.
ESD per IEC61000-4-2 Direct Discharge			±8 kV	
ESD per IEC61000-4-2 Air Discharge			±15 kV	
Reverse Stand-Off Voltage (V_{RWM})			5 V	
Reverse Breakdown Voltage (V_{BV})	$I_{BV} = 1\text{mA}$		10 V	
Clamping Voltage (V_{CL})	$I_{PP} = 1\text{A}$, $t_P = 8/20\mu\text{s}$		14 V	
Junction Capacitance (C_J)	$V_{RWM} = 0\text{V}$, $f = 1\text{MHz}$		3 pF	
Reverse Leakage Current (I_{RM})	$V_{RWM} = 5\text{V}$			1 μA

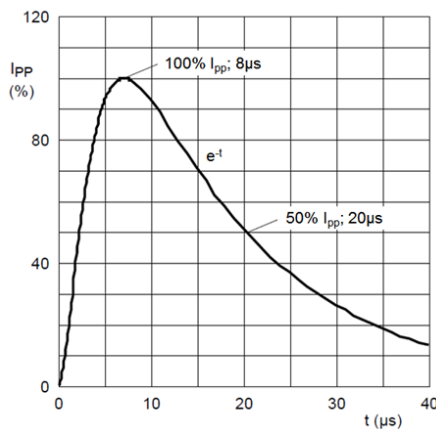


Fig. 1
8/20 μs pulse waveform
according to IEC 61000-4-5

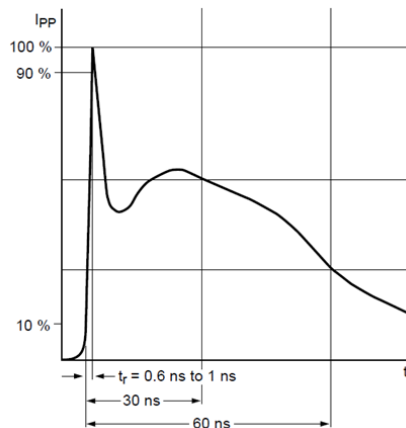


Fig. 2
ESD pulse waveform
according to IEC 61000-4-5

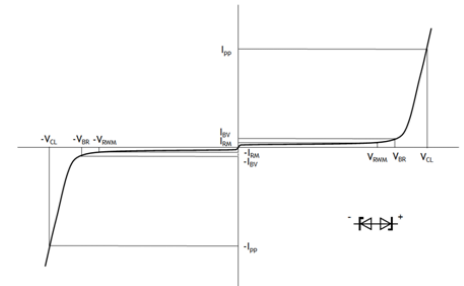
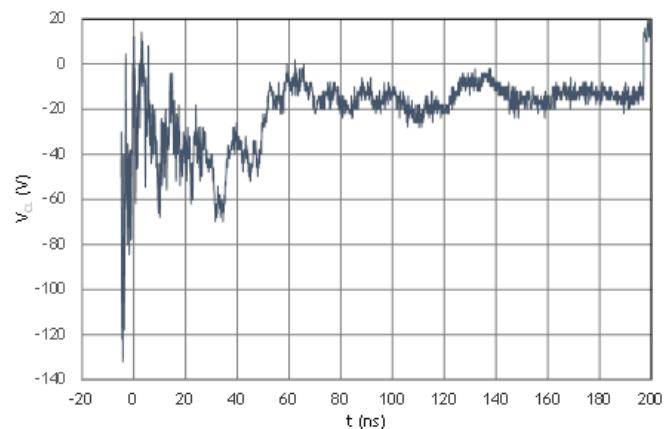
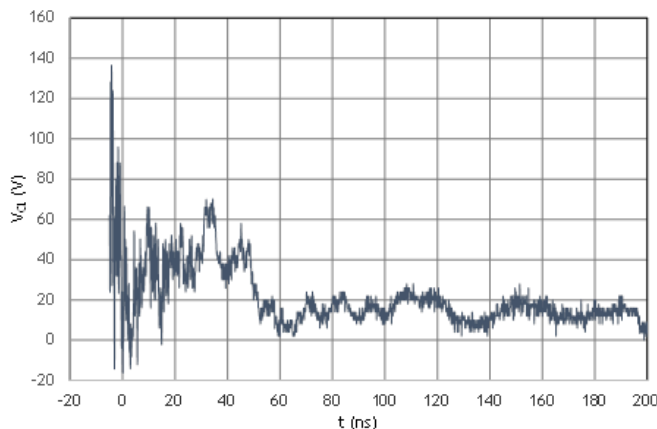


Fig. 3
V-I characteristics for bidirectional ESD
protection diode

Clamped Pulse Waveform per IEC61000-4-2 Level 4, ±8kv Direct Discharge:



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