

The T0060C-N is designed for applications requiring Surge & ESD protection capability. They are intended for use in surge and ESD sensitive equipment such as Telecom equipments, DVR

The T0060C-N has been specifically designed to protect sensitive ICs which are connected to data and transmission lines from overvoltage caused by surge and ESD(electrostatic discharge).

Features

- High Power Capacity – 6000V (10/700us voltage Waveform)
- Bi-direction Protection Devices
- Protects One Port
- Low Protection Voltage
- Low Leakage
- Response Time is < 1ns
- Solid-state silicon technology
- RoHS Compliant
- Meets MSL 1 Requirements
- ROHS compliant
- Tech chip technology



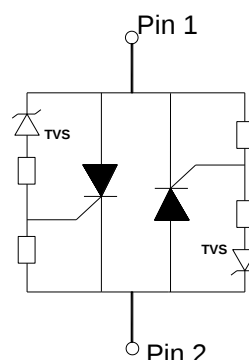
Main applications

- Audio/Video Line
- RS-485
- Peripherals
- Networking and Telecom
- Serial and Parallel Ports

Protection solution to meet

- IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- IEC61000-4-5(surge) $\pm 6000\text{V}$

SMB

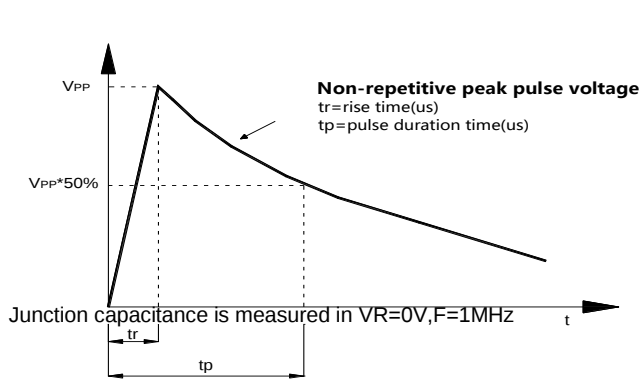
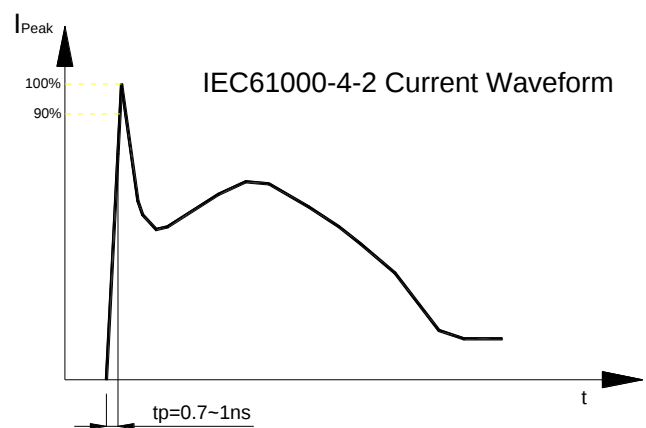
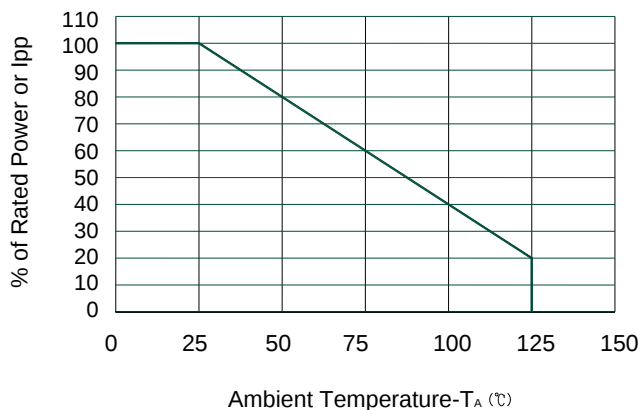
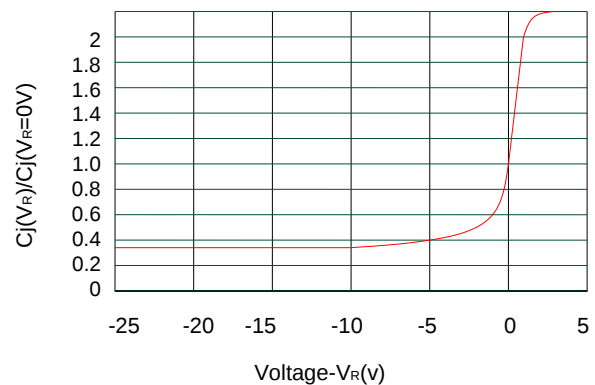


Maximum ratings (Tamb=25°C Unless Otherwise Specified)

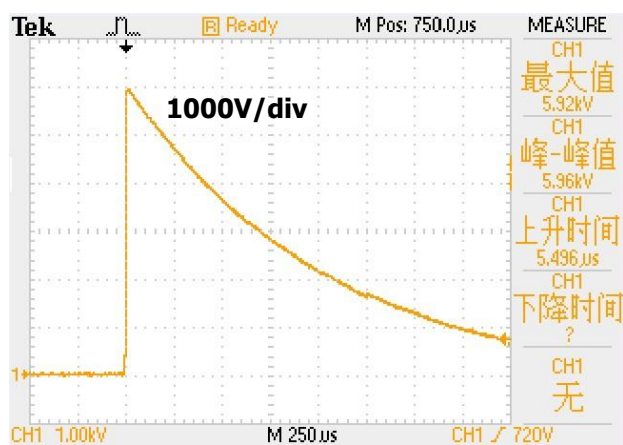
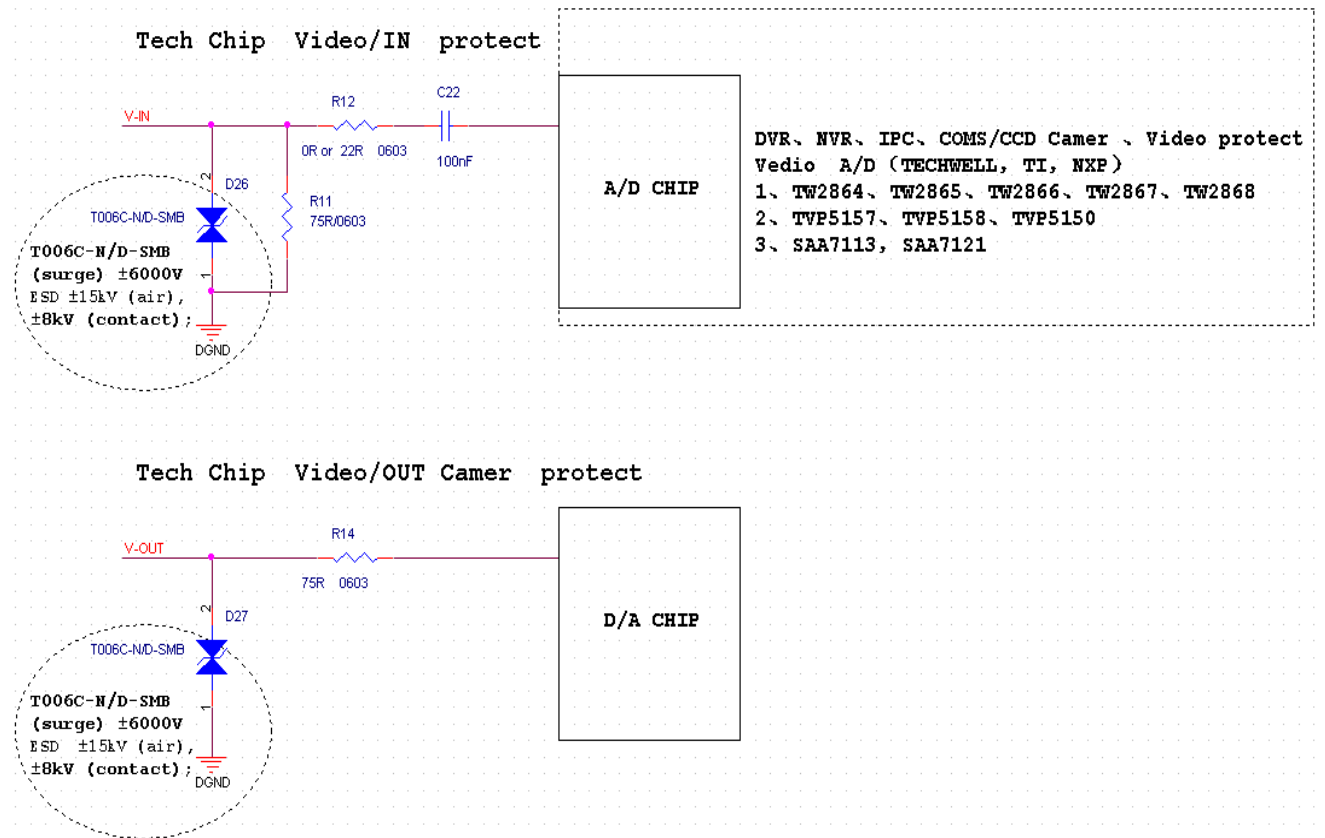
Parameter	Symbol	Value	Unit
Peak Voltage Pulse (tp=10/700μs waveform)		6000	V
ESD Rating per IEC61000-4-2:	Contact	10	KV
	Air	15	
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C
Lead Solder Temperature – Maximum (10 Second Duration)	T _L	260	°C

Electrical characteristics ($T_{amb}=25^{\circ}\text{C}$ Unless Otherwise Specified)

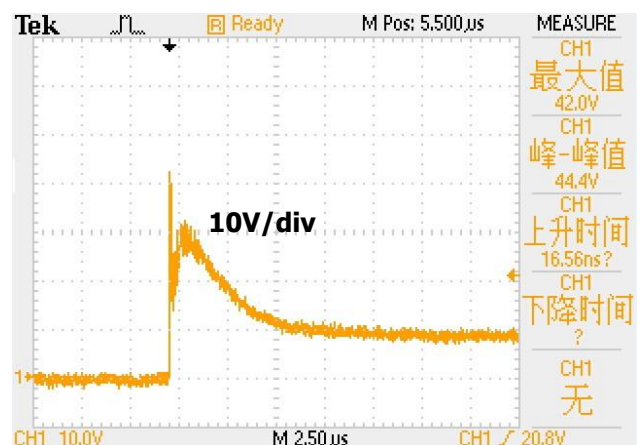
Symbol	Parameter	Conditions	Min.	Typ.	Max.	Units
V_{RWM}	Reverse Working Voltage				6.0	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1\text{mA}$,	6.0		15	V
I_R	Reverse Leakage Current	$V_{RWM} = 6\text{V}$,			1	μA
I_H	Hold Current		50			mA
V_S	Absorbed Voltage	@100V/s			25	V
		@500V/us			50	V
C_J	Junction Capacitance	$V_R = 0\text{V}$, $f = 1\text{MHz}$,		150	200	pF
		$V_R = 1\text{V}$, $f = 1\text{MHz}$,		80	150	pF

Typical electrical characterist applications

Pulse Waveform

ESD Discharge IEC61000-4-2 Current Waveform

Power Derating Curve

Junction Capacitance vs. Reverse Voltage

Typical applications



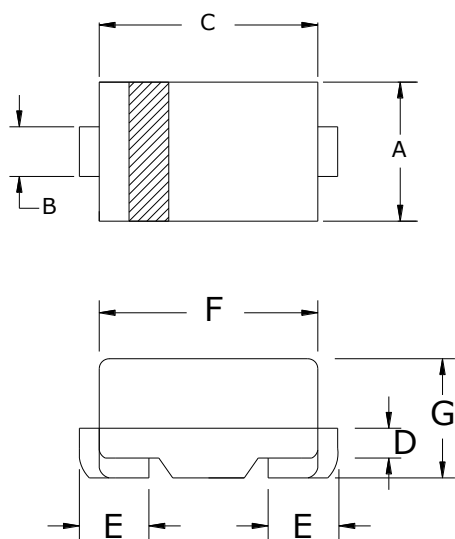
10/700uS,6000V Surge waveform



T0060C-N Absorbed surge waveform

Package information

SMB



Ref	Dimensions			
	Millimeters		Inches	
	Min	Max	Min	Max
A	3.30	3.80	0.130	0.150
B	1.95	2.12	0.077	0.083
C	4.24	4.75	0.167	0.187
D	0.15	0.40	0.006	0.016
E	0.76	1.27	0.030	0.050
F	5.00	6.00	0.197	0.236
G	2.00	2.60	0.079	0.102

Ordering Information

	OUTLINE	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETER (mm)	CARTON SIZE (mm)		
					L	W	H
T0060C-N	TAPING	2,500	20,000	330	360	360	360