

瑞微电子科技有限公司

RUIWEI ELECTRONICS TECHNOLOGY CO Ld

地址：中山市民众镇浪网大道 202 号

电话：0760-85708089 传真：0760-85708189

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称 CUSTOMER	
型 号 MODE	uESD5V0W050D6CAR
品 牌 BRANDS	SDISEMI
最 小 包 装 Minimum Pack Quantity	5000PCS
最 小 订 货 量 Minimum Order Quantity	5000PCS

供应商承认栏：			客户承认栏：		
检 验 INSPECT	审 核 CHECK	批 准 APPROVE	接 收 RECEIVE	审 核 CHECK	批 准 APPROVE
XiaoQin	Dirk	J.N			

公司 COMPANY：瑞微电子科技有限公司

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联系人： Fairy

手机 PHONE： 3 ■

盖章 Seal：



ULTRA LOW CAPACITANCE TVS DIODE

APPLICATIONS

- ◆ Cell Phone Handsets and Accessories
- ◆ Microprocessor based equipment
- ◆ Personal Digital Assistants (PDA's)
- ◆ Notebooks, Desktops, and Servers
- ◆ Portable Instrumentation
- ◆ Peripherals
- ◆ Pagers

IEC COMPATIBILITY

- ◆ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50 η s)

FEATURES

- ◆ 50 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$)
- ◆ Protects One Unirectional I/O Line
- ◆ Low clamping voltage
- ◆ Working voltages : 5V
- ◆ Low leakage current

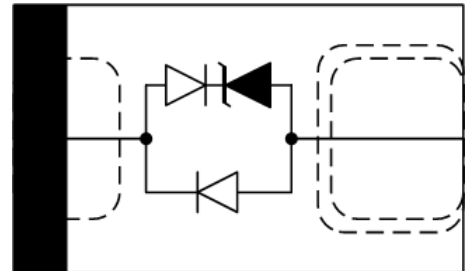
MECHANICAL CHARACTERISTICS

- ◆ DFN1006 (1.0x0.6mm) Package
- ◆ Molding Compound Flammability Rating : UL 94V-O
- ◆ Weight 0.5 Milligrams (Approximate)
- ◆ Quantity Per Reel : 5,000pcs
- ◆ Reel Size : 7 inch
- ◆ Lead Finish : Lead Free

DFN1006



PIN CONFIGURATION

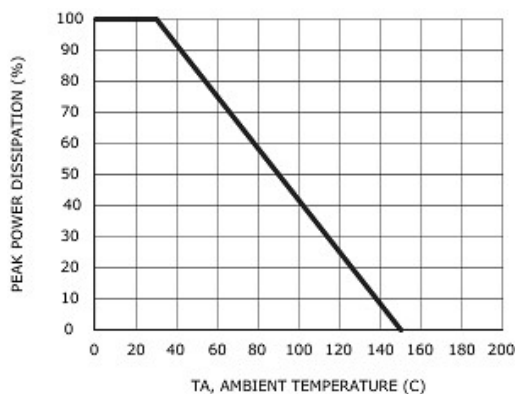
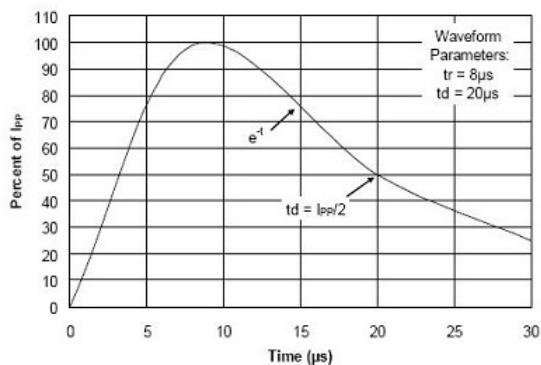
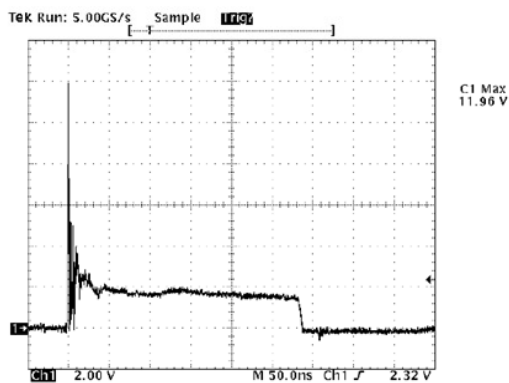
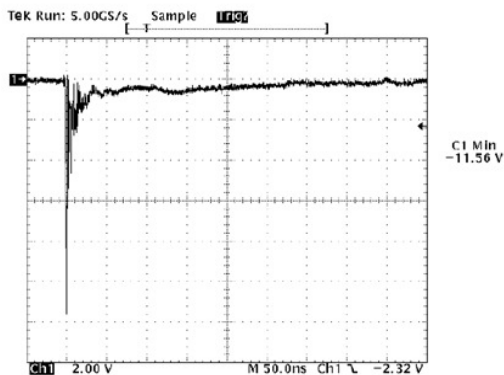


**DEVICE CHARACTERISTICS****MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)**

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ($t_p=8/20\mu s$ waveform)	P_{PP}	50	Watts
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

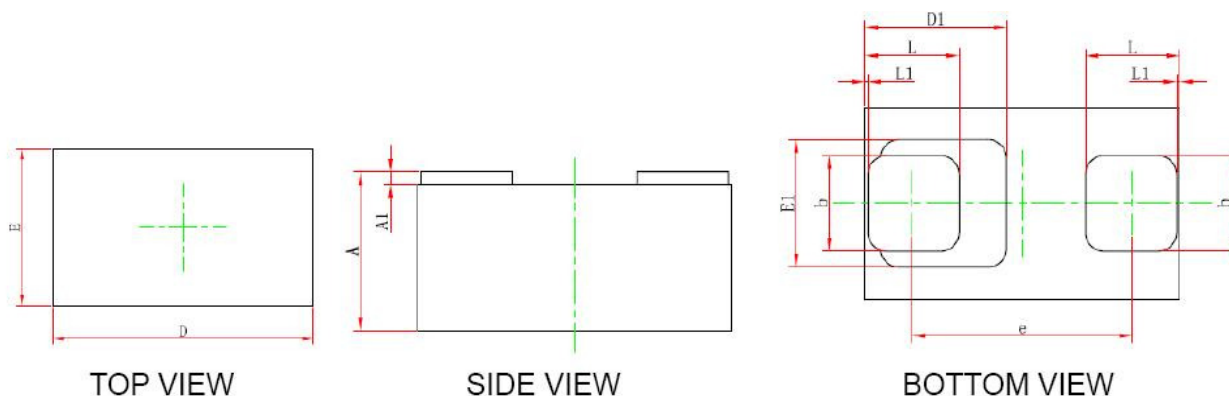
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

PART NUMBER	DEVICE MARKING	V_{RWM} (V) (max.)	V_B (V) (min.)	I_T (mA)	V_C (max.) (@A)	I_R (μA) (max.)	C_T (pF) (typ.)
uESD5V0W050D6CAR	H	5	6	1	12	1	0.5

Pulse Waveform**Power Derating Curve****ESD Clamping
(8kV Contact per IEC 61000-4-2)****ESD Clamping
(-8kV Contact per IEC 61000-4-2)**



DFN1006 PACKAGE OUTLINE & DIMENSIONS



PACKAGE DIMENSIONS

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.450	0.550	0.018	0.022
A1	0.010	0.070	0.000	0.003
D	0.950	1.050	0.037	0.041
E	0.550	0.650	0.022	0.026
D1	0.450REF.		0.018REF.	
E1	0.400REF.		0.016REF.	
b	0.275	0.325	0.011	0.013
e	0.675	0.725	0.027	0.029
L	0.275	0.325	0.011	0.013
L1	0.010REF.		0.000REF.	

* SOLDERING FOOTPRINT

