

Applications

- Lan equipment
- Video
- DVI
- High Speed Data Line
- Ethernet
- USB 2.0 Power and Data line Protection

Feature

- With TVS Diode
- ESD Protection:Level 4
- Low clamping voltage
- 100 Watts peak pulse power per line(tp=8/20uS)
- Ultra low capacitance:15pf max.(any I/O to GND.)
- Protection one line I/O port

IEC Compatibility

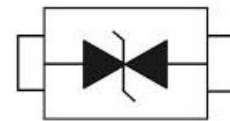
- EN61000-4
- 61000-4-2(ESD):Level4,
Contact:±8kv, Air:±15kv
- 61000-4-4(EFT):40A-5/50ns
- 61000-4-5(Surge):4A-8/20us

Device Characteristics

Maximum Ratings@25 unless otherwise specified			
Parameter	Symbol	Value	Units
Peak pulse power (tp=8/20us)	PPP	100	Watts
Operating Temperature	TJ	-55~150	°C
Storage Temperature	TSTG	-55~150	°C



SOD523


Mechanical Characteristics

- Molded JEDEC SOD523 package
- Packaging:Tape and Reel
- Flammability rating UL 94V-0
- Halgen Free

Parameter	Symbol	Condition	min	max	Units
Reverse Stand-off Voltage	VRWM	Pin 2 to 1/Pin 1 to 2		3.3	V
Reverse Breakdown Voltage	VBR(min)	I _Z =1mA Pin to Pin	3.8	5	V
Reverse Leakage Current	I _R (max)	@VRWM		0.4	uA
Clamping Voltage	VC	I _{PP} =5A t _p =8/20us		18	V
Peak Pulse Current	I _{PP}	t _p =8/20us		5	A
Junction Capacitance	C I/O	Pin capacitance to GND. V _{dc} =0V,f=1MHZ		15	pf

Rating and characteristic curve

FIGURE 1
Power Derating Curve

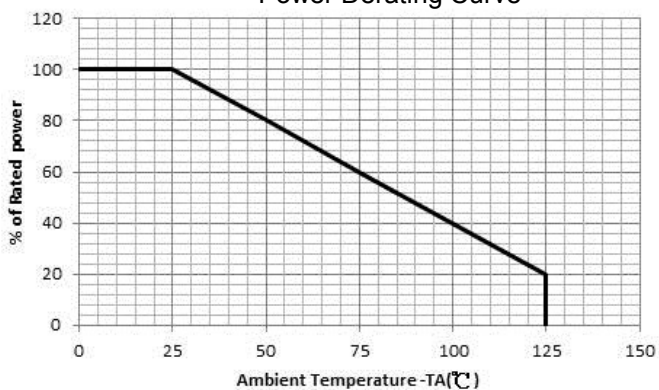
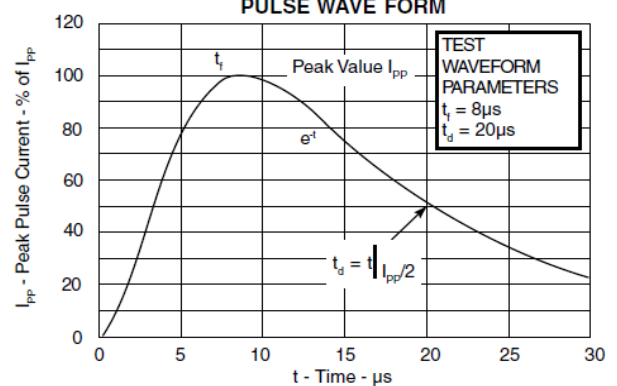
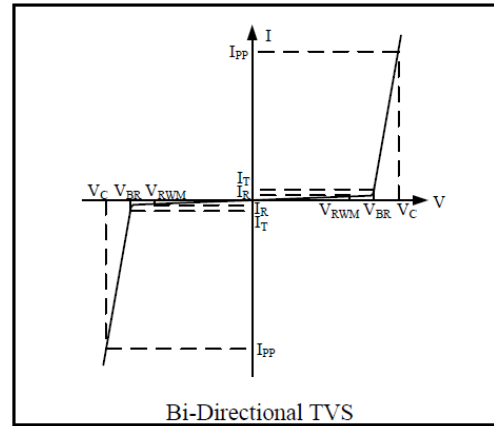


FIGURE 2
PULSE WAVE FORM



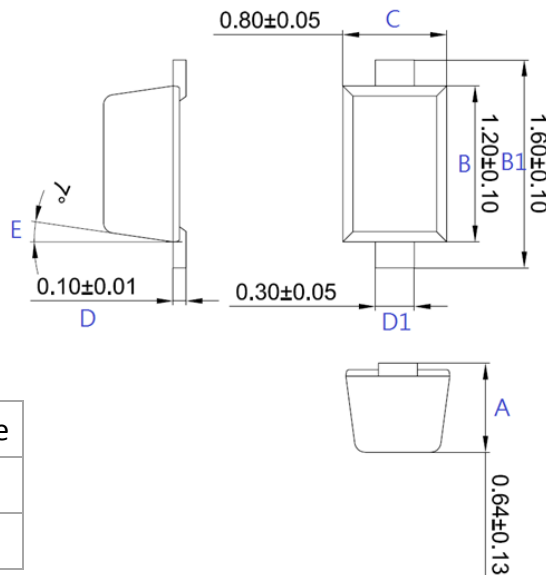
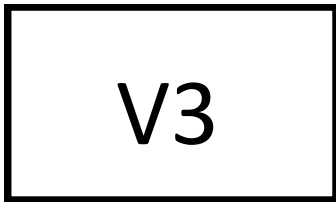
Electrical Characteristics (T=25°C)

Symbol	Parameter
V_{RWM}	Nominal Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Reverse Breakdown Voltage @ I_T
I_T	Test Current for Reverse Breakdown
V_C	Clamping Voltage @ I_{PP}
I_{PP}	Maximum Peak Pulse Current
C_{ESD}	Parasitic Capacitance
V_R	Reverse Voltage
f	Small Signal Frequency



Ordering information

Marking codes



Symbol	Millimeters		
	MIN	NOM	MAX
A	0.51	0.64	0.77
B	1.10	1.20	1.30
B1	1.50	1.60	1.70
C	0.75	0.80	0.85
D	0.09	0.10	0.11
D1	0.25	0.30	0.35
E	7° BSC		

Part No.	Marking Code
FESD3V3B	V3
Quantity	3,000pcs

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