

FEATURES

- ✧ 100 Watts peak pulse power per line ($t_p=8/20\mu s$)
- ✧ Protect for two I/O lines with bi-directional
- ✧ Low clamping voltage
- ✧ Working voltages: 12V
- ✧ Low leakage current
- ✧ ROHS compliant
- ✧ Compliant to Halogen - free

MAIN APPLICATIONS

- ✧ RS-232, RS-422 & RS-485
- ✧ Servers, notebook, and desktop
- ✧ Cellular handsets and accessories
- ✧ Control & monitoring systems
- ✧ Portable electronics
- ✧ Wireless bus protection
- ✧ Set-top box

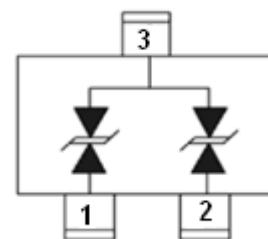
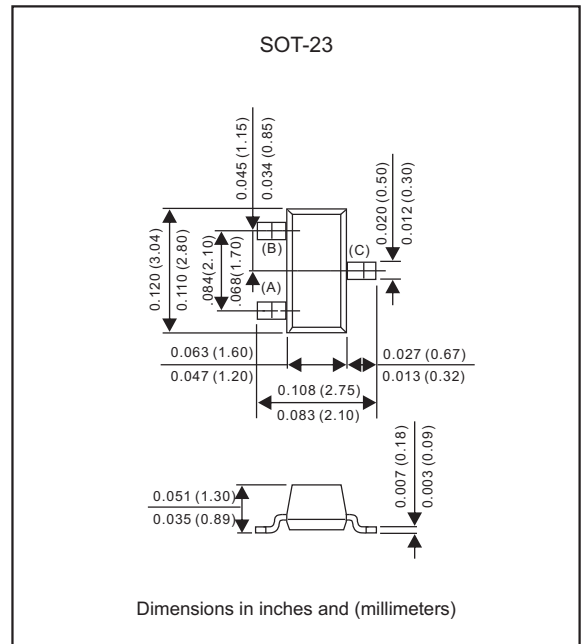
PROTECTION SOLUTION TO MEET

- ✧ IEC61000-4-2 (ESD) $\pm 30kV$ (air), $\pm 30kV$ (contact)
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns)
- ✧ IEC61000-4-5 (Lightning) 4A (8/20us)

MECHANICAL CHARACTERISTICS

- ✧ SOT-23 package
- ✧ Molding compound flammability rating : UL 94V-0
- ✧ Quantity per reel : 3,000pcs
- ✧ Lead finish : lead free
- ✧ Marking code: AB2

Package outline



PIN Configuration

ABSOLUTE MAXIMUM RATINGS (T_A=25°C, RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse power dissipation on 8/20 μs waveform	P _{PP}	100	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	+/-30	kV
ESD per IEC 61000-4-2 (Contact)		+/-30	
Operating junction temperature range	T _J	-55 to +125	°C
Storage temperature range	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse working voltage	V _{RWM}				12	V
Reverse breakdown voltage	V _{BR}	I _T = 1mA	13.3			V
Reverse leakage current	I _R	V _{RWM} = 12V			1	μA
Clamping voltage	V _C	I _{PP} ^① = 1A, t _p = 8/20μs		19		V
		I _{PP} ^① = 4A, t _p = 8/20μs			25	V
Junction capacitance	C _J ^②	V _{RWM} = 0V, f = 1MHz		5		pF

② Surge waveform: 8/20μs

② C_J measured @V_{RWM}=0V, 1MHz (pin 1 to pin3, pin 2 to pin3)

RATINGS AND V-I CHARACTERISTICS CURVES (T_A=25°C, unless otherwise noted)

FIG.1 Power Derating Curve

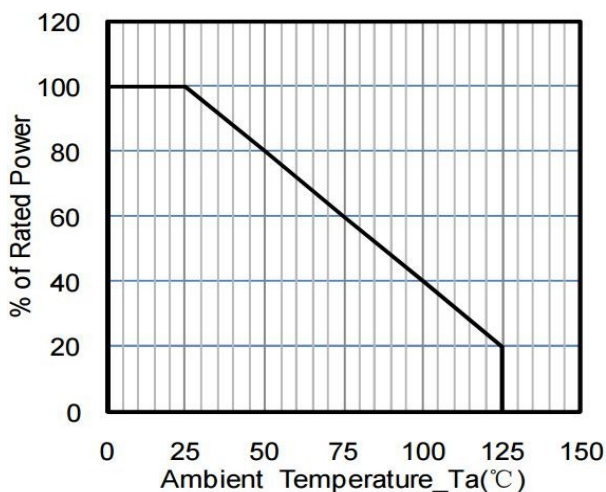
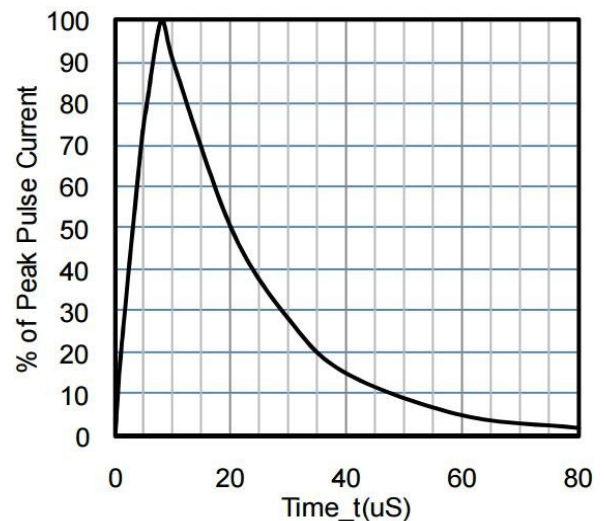


FIG.2 Pulse Waveform (8/20μs)



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