

FEATURES:

- ✧ Protects one bi-directional I/O line
- ✧ Low clamping voltage
- ✧ Low operating voltage: 5.0V
- ✧ ROHS compliant

MAIN APPLICATIONS

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

PROTECTION SOLUTION TO MEET

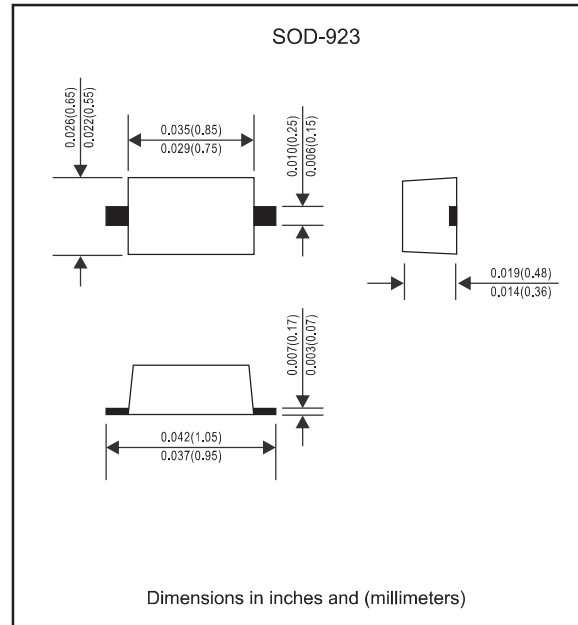
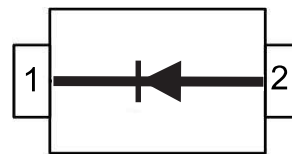
- ✧ IEC61000-4-2 (ESD) ±20kV (air), ±15kV (contact)

MECHANICAL CHARACTERISTICS

- ✧ Package SOD-923
- ✧ Molding Compound Flammability Rating : UL 94V-O
- ✧ Quantity Per Reel : 8000pcs
- ✧ Lead Finish : Lead Free

MARKING:D

CIRCUIT DIAGRAM



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

Parameter	Symbol	Value	Unit
Storage temperature range	T _{stg}	-55 to +150	°C
Operating junction temperature range	T _j	-55 to +125	°C
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Peak pulse power dissipation on 8/20 μs waveform	P _{PP}	60	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±20	kV
ESD per IEC 61000-4-2 (Contact)		±15	

ELECTRICAL CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Working Voltage	V _R				5.0	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	6.5	7.5	9.0	V
Reverse Leakage Current	I _R	V _R = 5V			0.1	μA
Peak Pulse Current	I _{pp}	t _p = 8/20μs			4	A
Clamping Voltage	V _C	I _{PP} = 1A, t _p = 8/20μs			9	V
		I _{PP} = 4A, t _p = 8/20μs			15	V
Junction Capacitance	C _J	V _R = 0V, f = 1MHz		0.5	0.7	pF

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

FIG.1: V- I curve characteristics (Uni-directional)

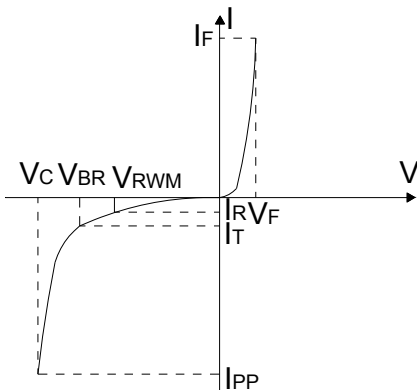


FIG.2: Pulse waveform (8/20μs)

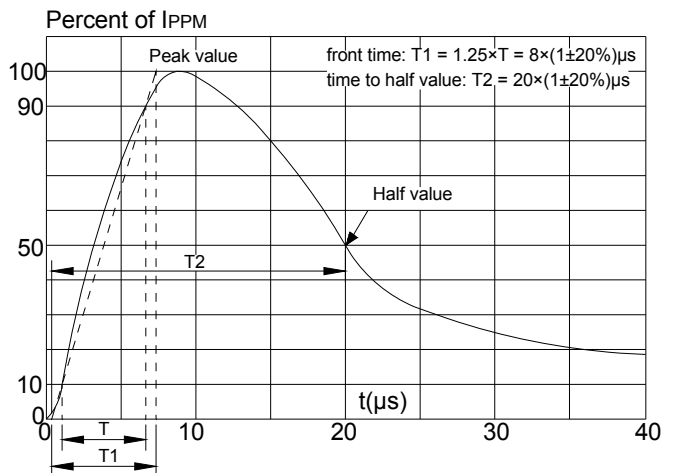


FIG.3: Pulse derating curve

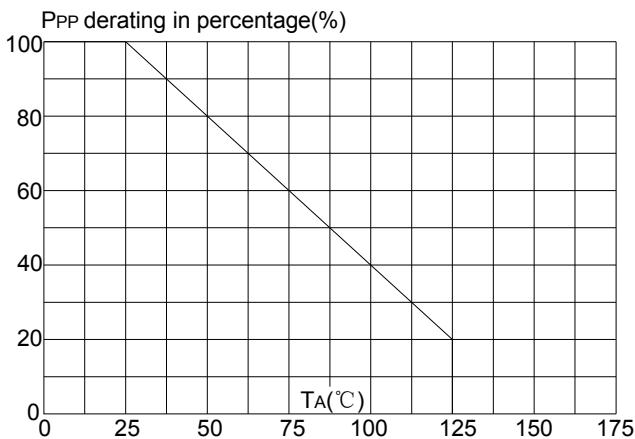
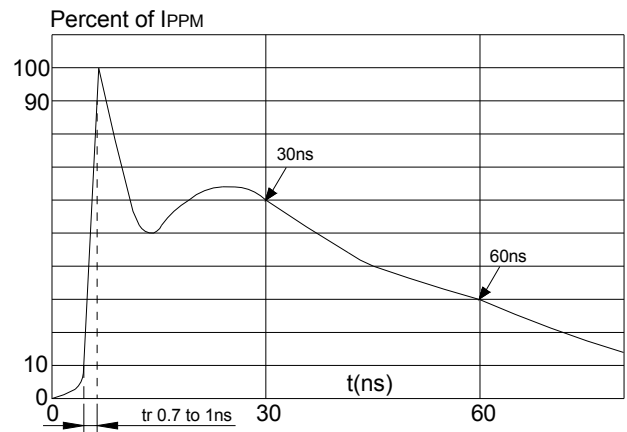


FIG.4: ESD clamping (15kV contact)



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