

FEATURES:

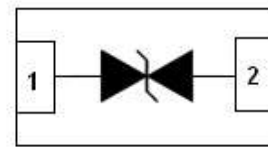
- ✧ Protects one bi-directional I/O line
- ✧ Low clamping voltage
- ✧ Low operating voltage: 5V
- ✧ ROHS compliant



MAIN APPLICATIONS

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

SOD-882



PIN Configuration

PROTECTION SOLUTION TO MEET

- ✧ IEC61000-4-2 (ESD) ±20kV (air), ±20kV (contact)
- ✧ IEC61000-4-5 (Lighting) 4.0A (8/20us)

MECHANICAL CHARACTERISTICS

- ✧ Package SOD-882
- ✧ Molding Compound Flammability Rating : UL 94V-O
- ✧ Quantity Per Reel : 10,000pcs
- ✧ Lead Finish : Lead Free
- ✧ Marking code: 50

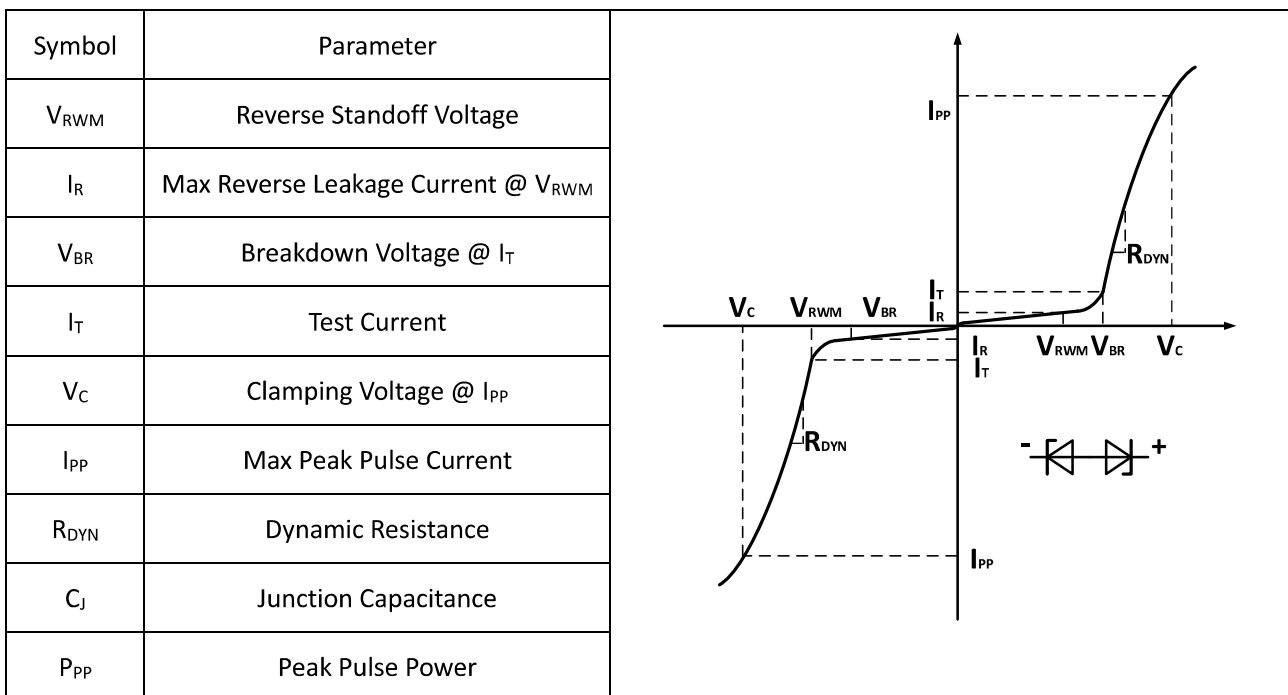
ABSOLUTE MAXIMUM RATINGS (T_A=25°C, RH=45%-75%, unless otherwise noted)

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}	88	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	+/- 20	kV
ESD per IEC 61000-4-2 (Contact)		+/- 20	

ELECTRICAL CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Working Voltage	V _R				5	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	6.0			V
Reverse Leakage Current	I _R	V _R = 5V			1.0	μA
Peak Pulse Current	I _{pp}	t _p = 8/20μs			4.0	A
Clamping Voltage	V _C	I _{PP} = 1.0A, t _p = 8/20μs			13	V
		I _{PP} = 4.0A, t _p = 8/20μs			22	V
Junction Capacitance	C _J	V _R = 0V, f = 1MHz		0.22	0.35	pF

RATINGS AND V-I CHARACTERISTICS CURVES



RATINGS AND V-I CHARACTERISTICS CURVES ($T_A=25^\circ\text{C}$, unless otherwise noted)

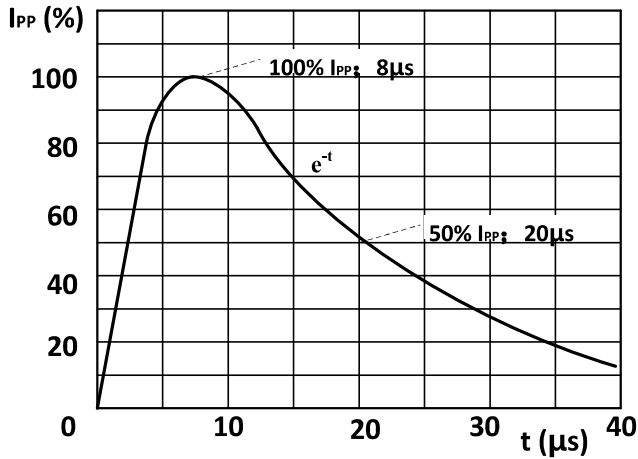


Fig. 1. 8/20 μs pulse waveform according to IEC 61000-4-5 and IEC 61643-321

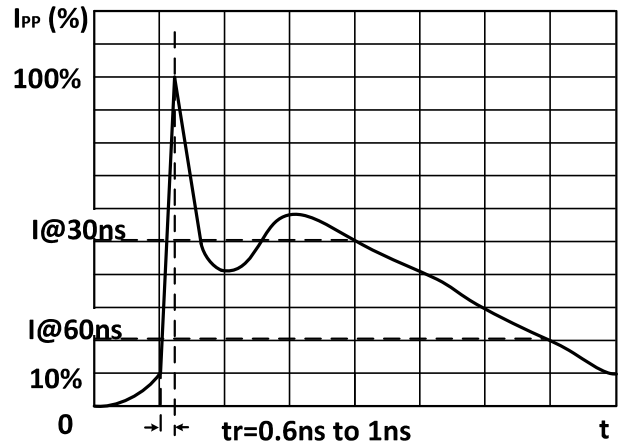


Fig. 2. ESD pulse waveform according to IEC 61000-4-2

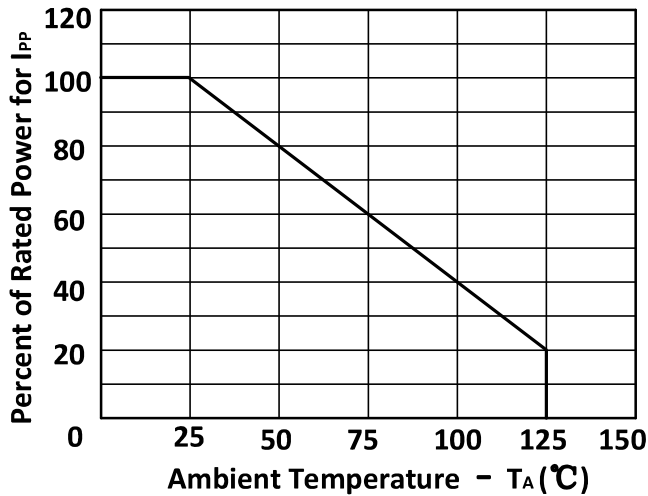


Fig. 3. Power Derating Curve

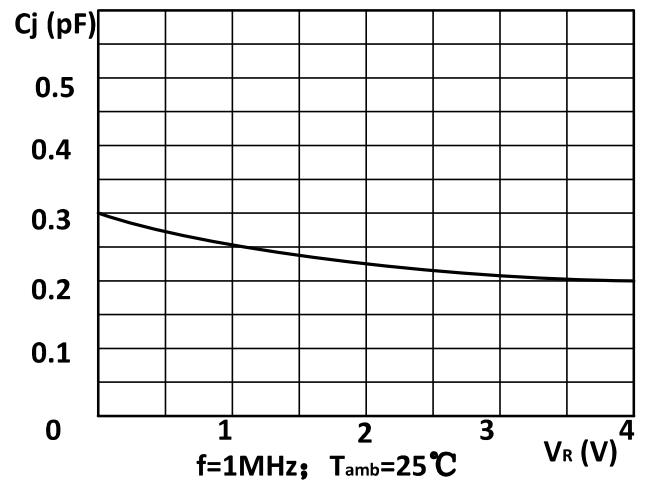


Fig. 4. Junction Capacitance vs V_R

PACKAGE MECHANICAL DATA

<p>SOD-882</p>	Symbol	Millimeters		
		min	nom	max
	D	0.55	0.60	0.65
	E	0.95	1.00	1.05
	L1	0.20	0.25	0.30
	L2	0.20	0.25	0.30
	b	0.45	0.50	0.55
	e	0.65BSC		
	A	0.45	0.50	0.55
	h	0.07	0.12	0.17

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