

Features

- 2-pin lead-less package
- Junction capacitance (Max value: 300pF)
- Peak Pulse current (8/20 μ s) MAX : 80A
- IEC61000-4-2 (ESD) $\pm$ 30kV (air), $\pm$ 30kV (contact)
- Low leakage current
- Working voltages:24V
- RoHS Compliant

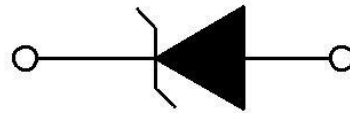
Mechanical Characteristics

- Package: SOD-323
- Lead Finish:Matte Tin
- Case Material: "Green" Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020
- Tape Reel :3000pcs

Applications

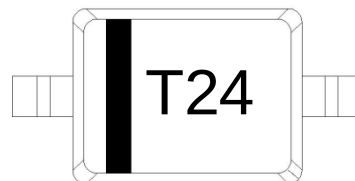
- Laptop Computers
- Cellular Phones
- Digital Cameras
- Personal Digital Assistants(PDAs)

Appearance & Symbol



Uni-directional

Marking Information



T24=Marking Code

Absolute Maximum Ratings (T=25°C, RH=45%-75%, unless otherwise noted)

Parameters	Symbol	Value	Unit
Peak Pulse Power (tp=8/20µs waveform)	P _{PP}	4320	W
Peak Pulse Current (8/20µs)	I _{PP}	80	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	±30 ±30	KV
Operating Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Electrical Characteristics (T=25°C, RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V _{RWM}				24	V
Reverse Breakdown Voltage	V _{(BR)R}	I _R = 1mA	26.7		29.5	V
Reverse Leakage Current	I _R	V _R = 24V			0.2	µA
Clamping voltage	V _C	I _{PP} = 10A, T _p =8/20us			42	V
Clamping voltage	V _C	I _{PP} = 80A, T _p =8/20us			54	V
Junction capacitance	C _j	V _R =0V, f =1MHz		200	300	pF

Typical Characteristics

FIG1: Power rating derating curve

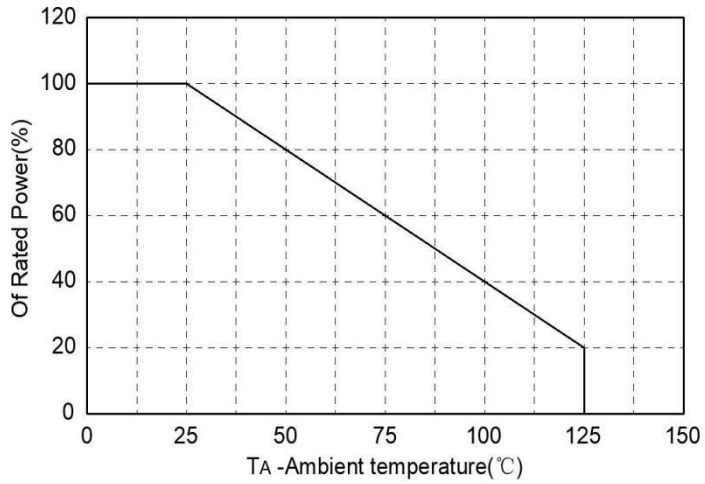


FIG2: pulse Waveform

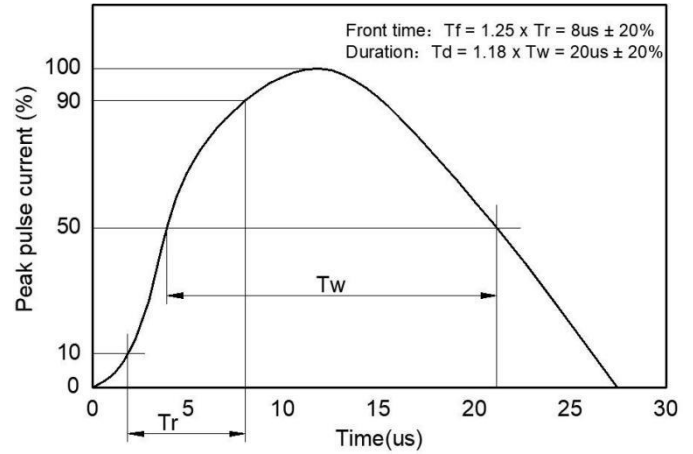


FIG3: Capacitance between terminals characteristics

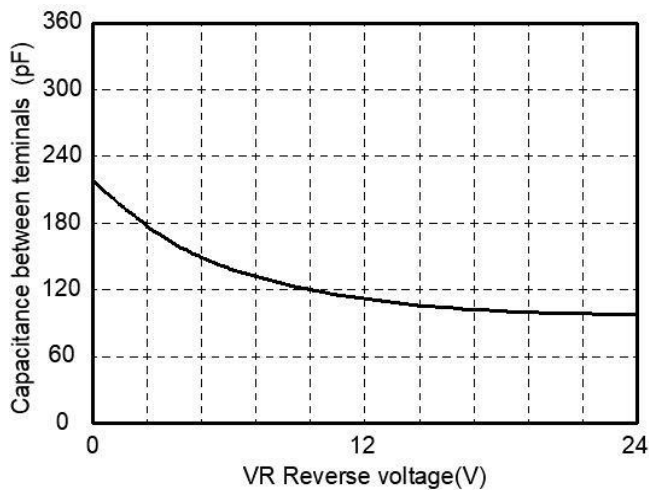
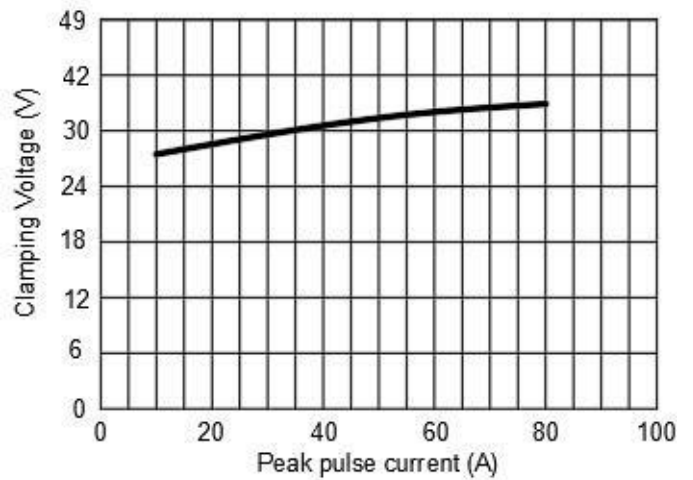
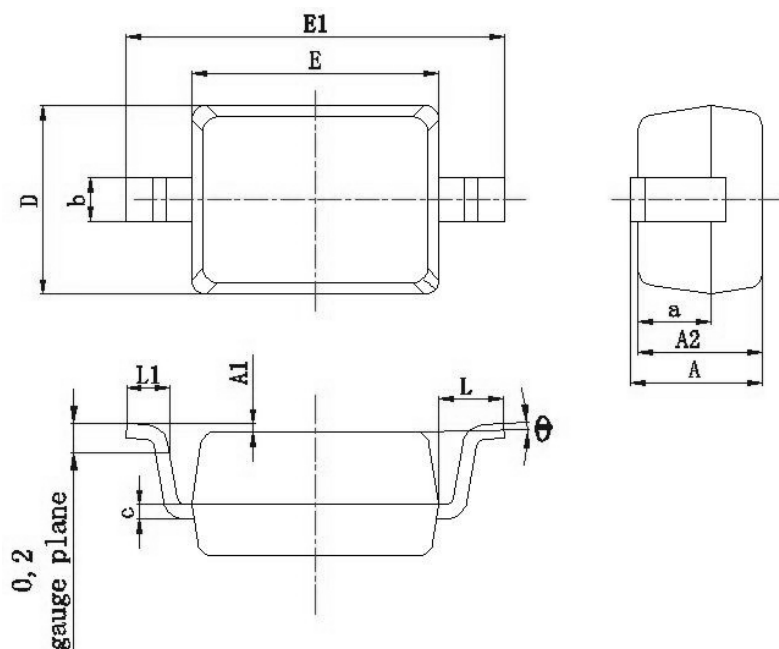


FIG4: Clamping Voltage vs. Peak Pulse Current

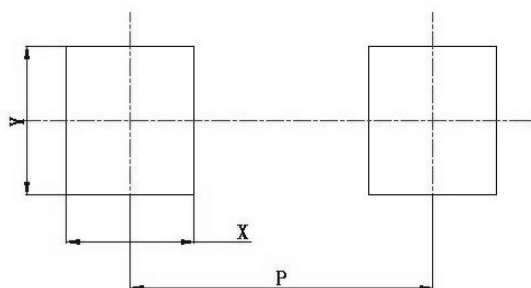


Package mechanical data



Symbol	Millimeters	
	Min.	Max.
A	0.80	1.15
A1	0	0.1
A2	0.8	1.0
a	(0.5)	
D	1.15	1.45
E	1.60	1.85
E1	2.5	2.8
b	0.25	0.40
c	0.08	0.15
L	(0.475)	
L1	0.25	0.45
θ	0°	8°

Suggested Land Pattern



Symbol	Dimension in Millimeters
	Typ.
X	(0.7)
Y	(0.7)
P	(2.3)