

Features

- 2-pin lead-less package
- Junction capacitance (Max value: 30pF)
- Peak Pulse current (8/20 μ s) MAX : 12A
- IEC61000-4-2 (ESD) $\pm$ 30kV (air), $\pm$ 30kV (contact)
- Low leakage current
- Working voltages:12V
- RoHS Compliant

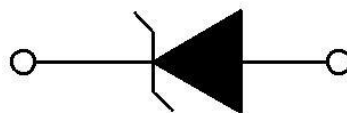
Mechanical Characteristics

- 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

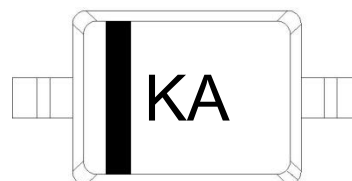
- Laptop Computers
- Cellular Phones
- Digital Cameras
- Personal Digital Assistants(PDAs)

Appearance & Symbol



Uni-directional

Marking Information



KA =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}	360	W
Peak Pulse Current (8/20μs)	I _{PP}	12	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}				12	V
Reverse Breakdown Voltage	V _{BR}	I _R = 1mA	13.3		16	V
Reverse Leakage Current	I _R	V _R = 12V			1	uA
Clamping voltage	V _C	I _{PP} = 1A, T _P =8/20us			16	V
Clamping voltage	V _C	I _{PP} = 12A, T _P =8/20us		25	30	V
Junction capacitance	C _j	V _R = 0V, f = 1MHz		30	60	pF

Typical Characteristics

FIG1: Power rating derating curve

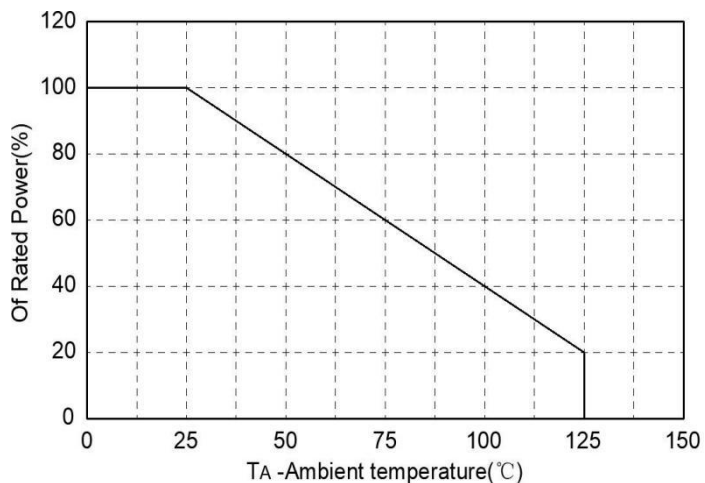


FIG2: pulse Waveform

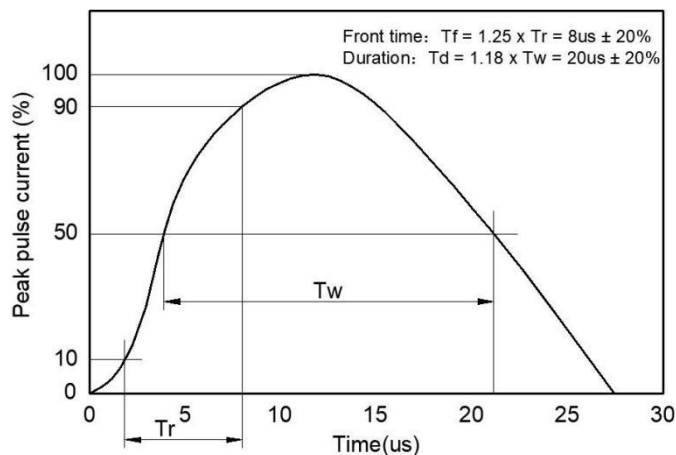


FIG3: Capacitance between teminals charateristics

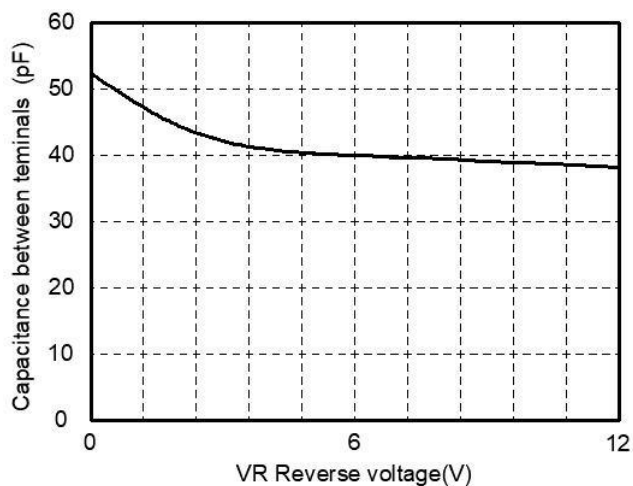
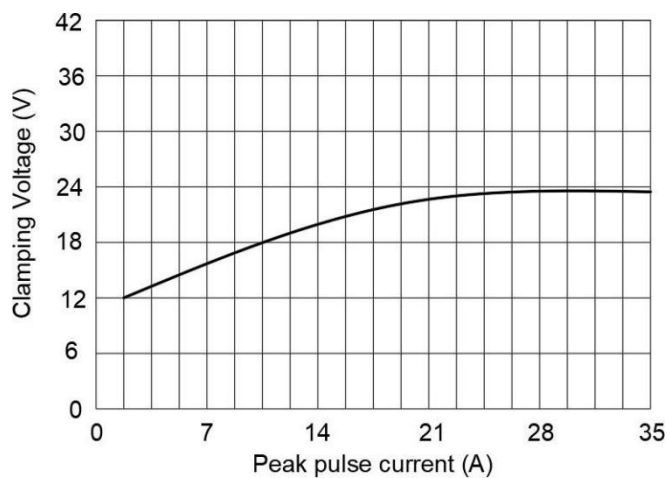
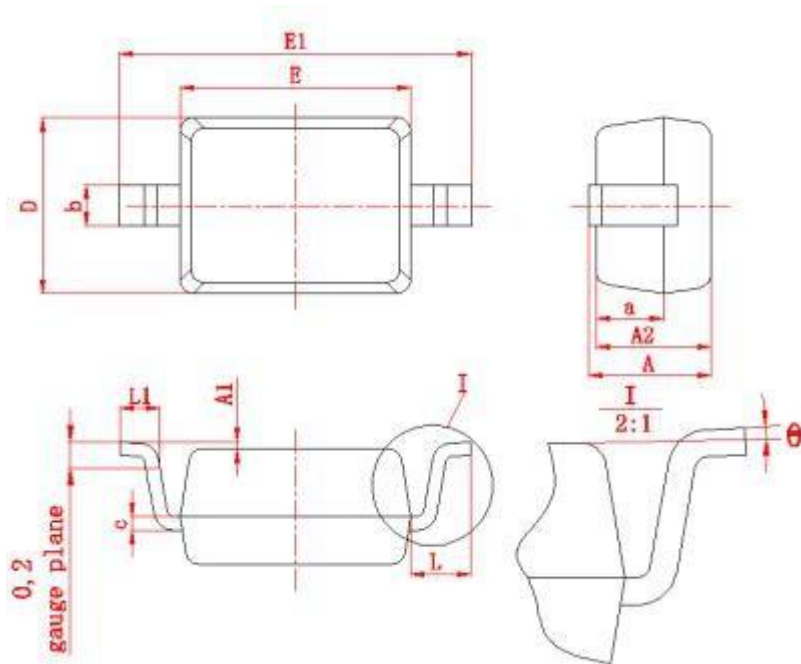


FIG4: Clamping Voltage vs. Peak Pulse Current

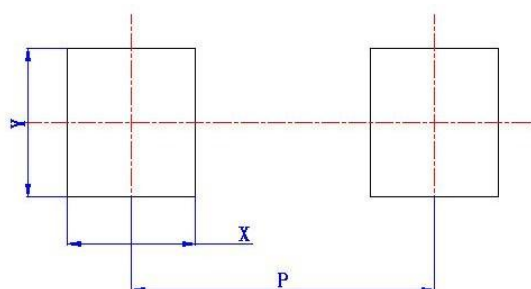


Package mechanical data



Symbol	Millimeters	
	Min.	Max.
A	0.80	1.05
A1	0	0.1
A2	0.8	0.95
a	(0.5)	
D	1.2	1.4
E	1.6	1.8
E1	2.5	2.75
b	0.25	0.35
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)