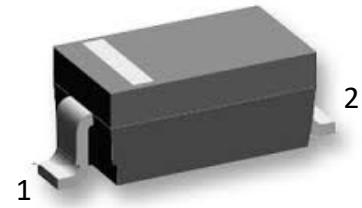


### Applications

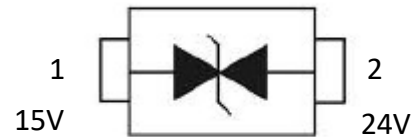
- Personal Digital Assistance
- Wireless System
- Cellular Phones
- High Speed Data Line
- Ethernet
- USB Interface



SOD323

### Feature

- Bi-directional configurations
- ESD Protection:Level 4
- Low clamping voltage
- 160 Watts peak pulse power per line(tp=8/20uS)
- Protection one power line or I/O port



### IEC Compatibility

- EN61000-4
- 61000-4-2(ESD):Level 4,Contact:±8kv,Air:±15kv
- 61000-4-4(EFT):40A-5/50ns
- 61000-4-5(Surge):12A,8/20us

### Mechanical Characteristics

- Molded JEDEC SOD-323
- Weight 5 milligrams
- Flammability rating UL 94V-0
- Halgen Free

## Device Characteristics

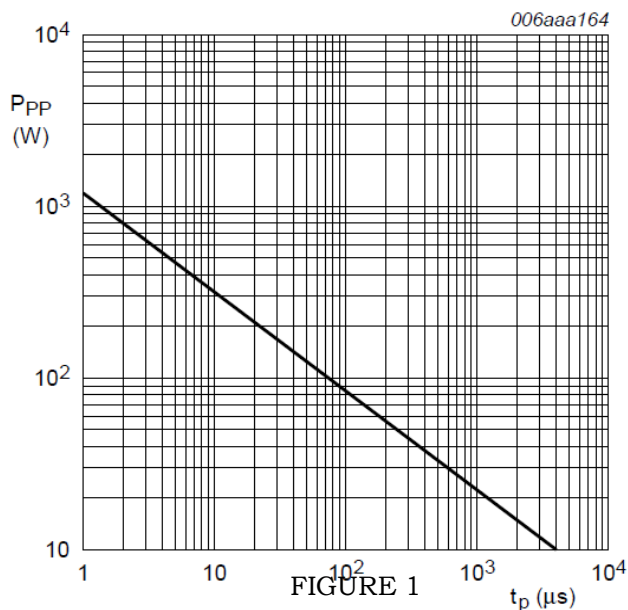
Maximum Ratings@25 unless otherwise specified			
Parameter	Symbol	Value	Units
Peak pulse power (tp=8/20us) see fig 1.	P <sub>PP</sub>	160	Watts
Operating Temperature	T <sub>J</sub>	-55~150	°C
Storage Temperature	T <sub>STG</sub>	-55~150	°C

PIN	Description	VR
1	Cathode	15V
2	Cathode	24V

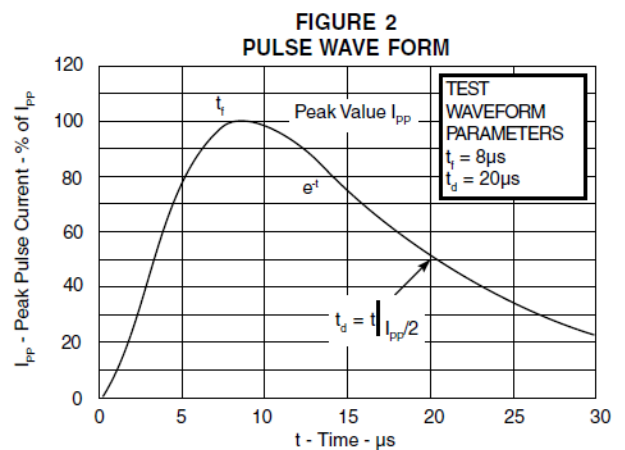
### Electrical Characteristics

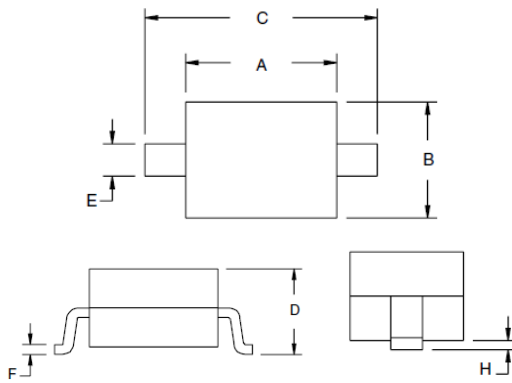
Parameter	Symbol	Condition	min	max	Units
Reverse Stand-off Voltage	$V_{RWM}$	Pin 1 to 2/Pin 2 to 1		15/24	V
Reverse Breakdown Voltage	$V_{BR(min)}$	$I_z=5mA$ $V_R=15V$	17.1	20.3	V
		$I_z=5mA$ $V_R=24V$	25.4	30.3	V
Reverse Leakage Current	$I_{R(max)}$	@ $V_{RWM}$		50	nA
Forward Voltage	$V_{F(max)}$	$I_F=15mA$		1.15	V
Clamping Voltage	$V_C$	$I_{PP}=1A$ $V_R=15V$		25	V
		$I_{PP}=1A$ $V_R=24V$		40	V
Peak Pulse Current	$I_{PP}$	$t_p=8/20\mu s$		3	A
Junction Capacitance	$C_{I/O}$	Pin capacitance to GND. $V_{dc}=0V, f=1MHz$		17	pf

### Rating and characteristic curve



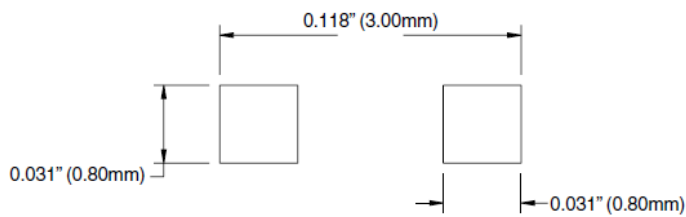
Peak pulse power as function of exponential pulse duration





Package dimensions				
DIM	Millimeters		Inchs	
	Min	Max	Min	Max
A	1.60	1.90	0.063	0.075
B	1.15	1.45	0.045	0.057
C	2.39	2.70	0.094	0.106
D	0.92	1.10	0.036	0.043
E	0.25	0.40	0.010	0.016
F	0.10	0.20	0.004	0.008
H		0.10		0.004

### Mountingpad



Type No.	Package	Description	Packing quantity	Marking
PESD1524VD	SOD323	4mm pitch,8mm tape &Reel	3000	AM



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