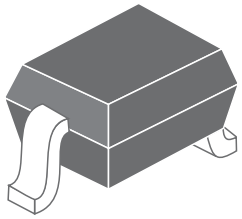
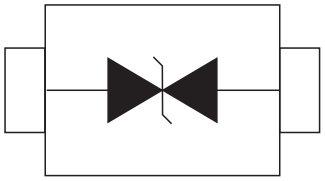
Electro-Static Discharge
TESD1524FB
Bidirectional TVS Diode

SOD-323



Pin Configuration



Features

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

IEC Compatibility

- IEC61000-4-2 (ESD):Level 4, ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ηs)
- IEC61000-4-5(Surge) 3A ,8/20μs

Applications

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

Mechanical Characteristics

- JEDEC SOD-323 Package
- Molding Compound Flammability Rating:L 94V-O
- Quantity Per Reel:3000pcs
- Reel Size:7 inch
- Lead Finish:Lead Free

Maximum Ratings(T_A=25℃ unless otherwise specified)

Parameter	Symbol	Value	Units
Peak Pulse Power	P_{PP}	160	Watts
Lead Solder Temperature – Maximum (10 Second Duration)	T_L	260	℃
Junction Temperature	T_J	150	℃
Storage Temperature Range	T_{STG}	-55~150	℃

Electrical Characteristics(T_A=25℃ unless otherwise specified)

TESD1524FB(Marking: AM)

Parameter	Symbol	Conditions	Pin1 to 2 (15V TVS)		Pin2 to 1 (24V TVS)		Units
			Min.	Max.	Min.	Max.	
Reverse Stand-off Voltage	V_{RWM}	Pin1 to 2 or Pin2 to 1		15		24	V
ReverseBreakdown Voltage	V_{BR}	I_T=5mA	17	20.3	25.4	30.3	V
Clamping Voltage	V_C	I_{PP}=1A		25		40	V
Reverse Leakage Current	I_R	@V_{RWM}		1		1	μA
Junction Capacitance	C_J	0Vdc,f=1MHz		17		17	pF

Ratings and Characteristic Curves

Fig.1 Pulse Waveform

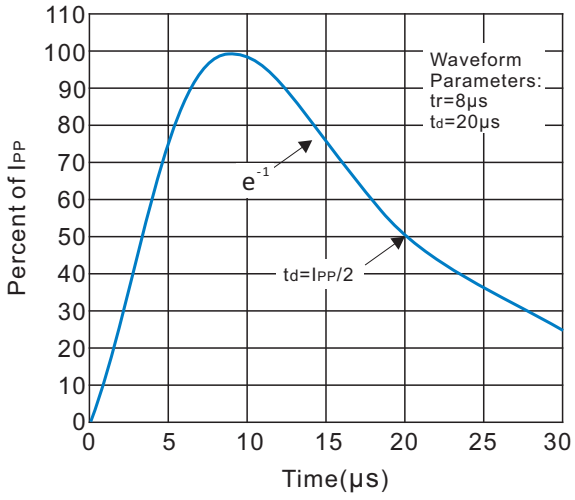
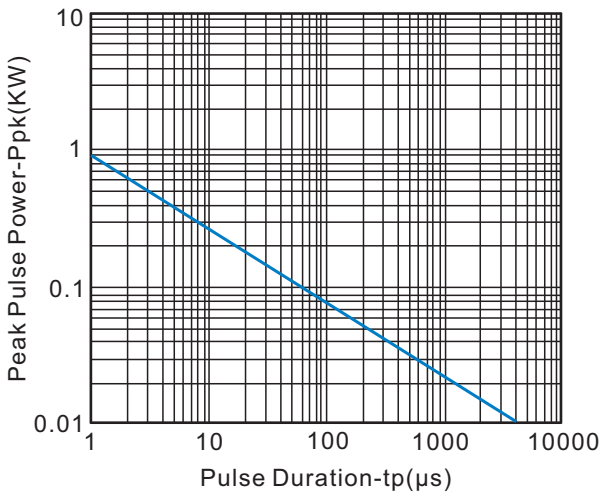
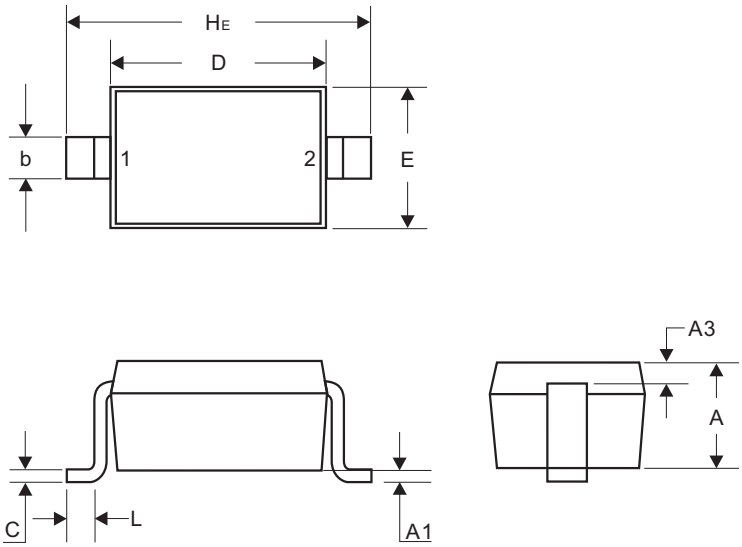


Fig.2 Non-Repetitive Peak Pulse Power vs.Pulse Time



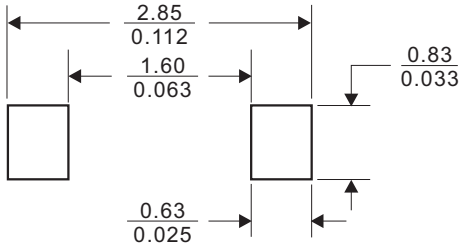
Dimensions(SOD-323)

SOD-323



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	0.80	1.00	0.031	0.040
A1	0.00	0.10	0.000	0.004
A3	0.15REF		0.006REF	
b	0.25	0.40	0.010	0.016
C	0.089	0.177	0.003	0.007
D	1.60	1.80	0.062	0.070
E	1.15	1.35	0.045	0.053
L	0.08		0.003	
HE	2.30	2.70	0.090	0.105

Recommended Mounting Pad Layout



Dimensions in (millimeters / inches)