



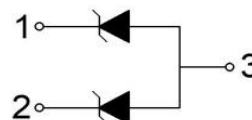
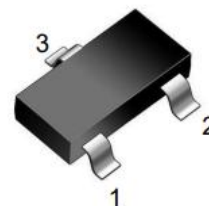
1. Features

- Up to 2 lines protects
- Junction capacitance (Max value: 55pF)
- Peak Pulse current (8/20μs) Max:10A
- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact)
- Low clamping voltage
- Low leakage current
- Working voltages:15V
- RoHS Compliant

2. Mechanical Data

- Case:Molded Plastic,SOT23.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking:BM2
- Marking:marked on body.

SOT23



3. Maximum Ratings

Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	Value	Unit
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	350	W
Peak Pulse Current (8/20μs)	I _{PP}	10	A
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	KV
ESD per IEC 61000-4-2 (Contact)		±30	
Junction Temperature	T _j	-55~+125	°C
Storage Temperature	T _{stg}	-55~+150	°C

4. Electrical Characteristics (T_A=25°C unless otherwise noted)

Characteristics	Symbol	Condition	Min	TYP	Max	Unit
Reverse Working Voltage	V _{RWM}		-	-	15	V
Reverse Breakdown Voltage	V _{BR}	I _R = 1mA	16	-	19	V
Reverse Leakage Current	I _R	V _R =15V	-	-	0.2	uA
Clamping Voltage	V _C	I _{PP} = 1A,TP=8/20us	-	-	24	V
Clamping Voltage	V _C	I _{PP} =10A,TP=8/20us	-	-	35	V
Junction capacitance	C _j	VR =0V,f =1MHz	-	-	55	pF



5. Rating And Characteristic Curves

Fig.1 Power rating derating curve

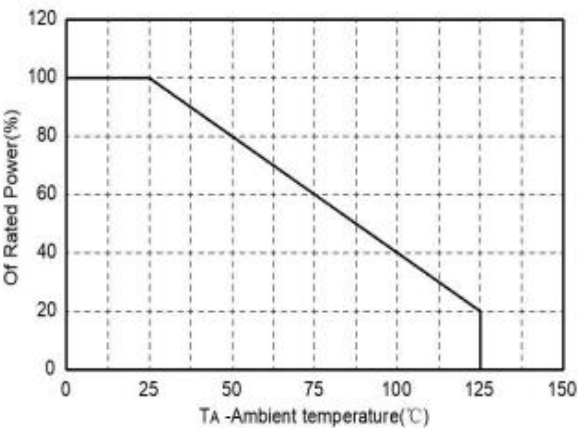


Fig.2 pulse Waveform

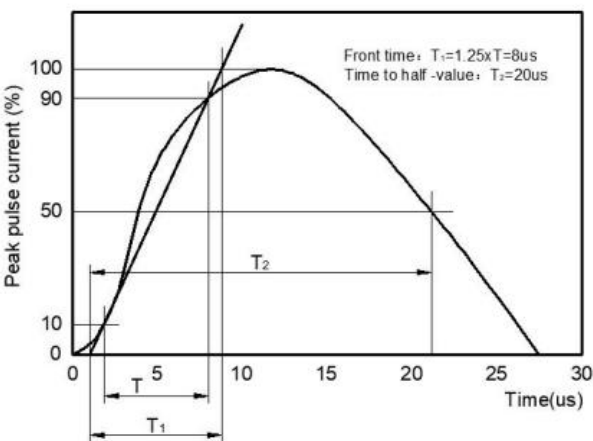


Fig.3 Capacitance between terminals characteristics

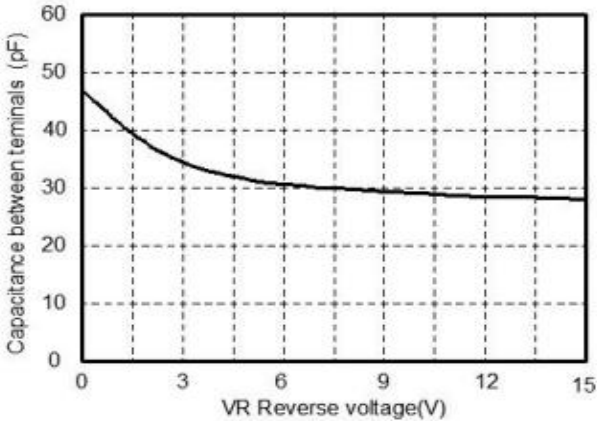
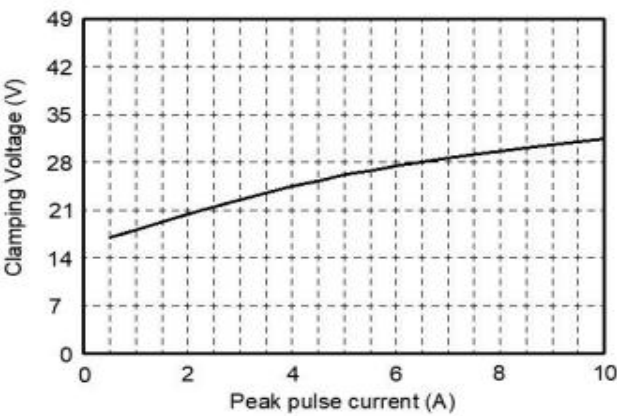
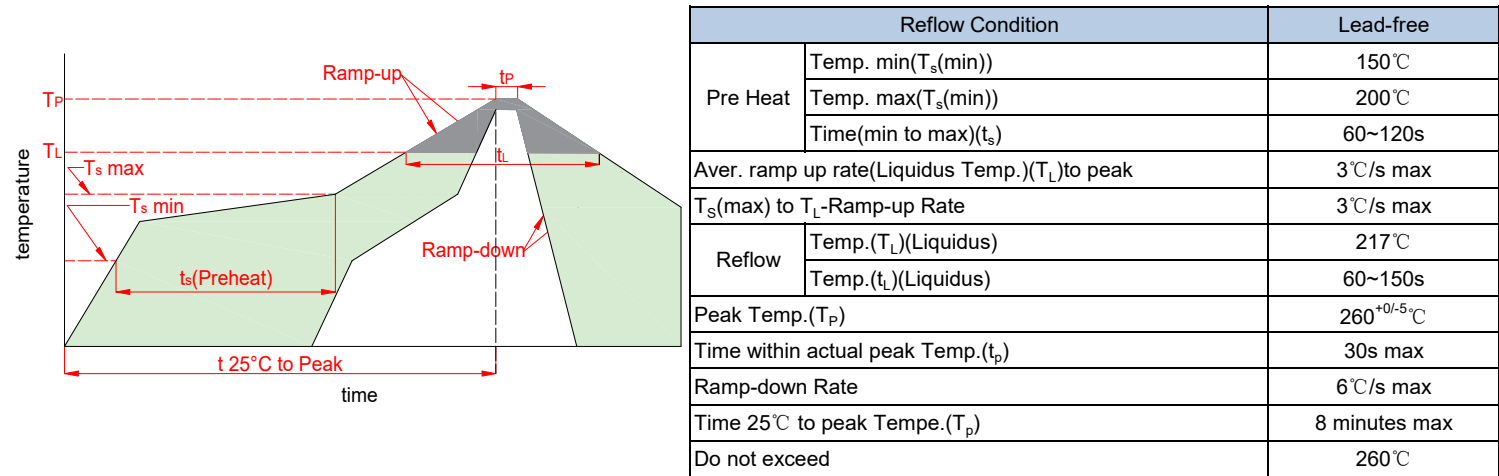


Fig.4 Clamping Voltage vs. Peak Pulse Current

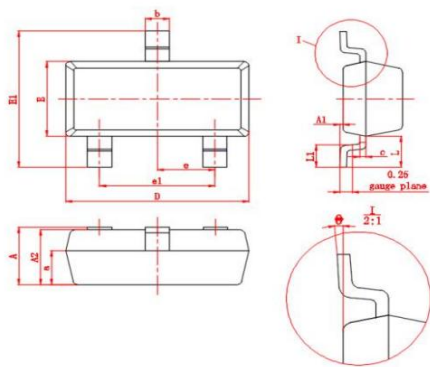




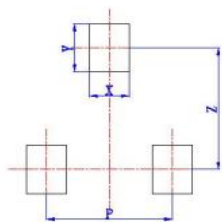
6. Soldering Parameters



7. Dimensions



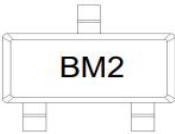
Mounting PAD Layout



Symbol	Inches		Millimeters	
	Min	Max	Min	Max
A	0.035	0.045	0.90	1.15
A1	0.000	0.004	0.00	0.10
A2	0.035	0.039	0.90	1.00
a	0.024		0.60	
D	0.110	0.118	2.80	3.00
E	0.047	0.055	1.20	1.40
E1	0.089	0.100	2.25	2.55
e	0.037		0.95	
e1	0.071	0.079	1.80	2.00
b	0.012	0.020	0.30	0.50
c	0.003	0.006	0.08	0.15
L	0.022		0.55	
L1	0.012	0.020	0.30	0.50
θ	0°	8°	0°	8°
c	0.024		0.60	
c	0.031		0.80	
c	0.080		2.02	
c	0.075		1.90	

8. Part Marking System

Cathode Band



9. Package Information

Package	Part Number	Marking Code	Quantity(pcs)
SOT23	ESDHLC1502E	BM2	3000



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