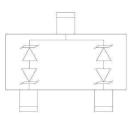


Product data sheet

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SOT-23

Features

- ♦ 300 Watts peak pulse power (tp = 8/20µs)
- Transient protection for high speed data lines to IEC 61000-4-2 (ESD) ±30kV (air), ±30kV(contact) IEC 61000-4-4 (EFT) 40A (5/50ns)
- Working voltages : 3.3V,5V,12V,15V,24V
- Protects two bidirectional line
- Low operating and clamping voltages
- Solid-state silicon avalanche technology

Applications

- Notebooks, Desktops, Servers and Video Graphics Cards
- USB Power & Data Line Protection
- Monitors and Flat Panel Displays
- ♦ I²C Bus Protection
- Portable Instrumentation
- ♦ Set Top Box

P/N	V _{RWM} (V) (max.)	V _B (V) (min.)	l⊤ (mA)	V _c @1A (V) (max.)		/c V) (@A)	Ι _R (μΑ) (max.)	C⊤ (pF) (max.)
PESD3V3L2BT	3.3	4	1	7.0	14	18	1	100
PESD5V0L2BT	5	6	1	9.8	18	13	1	75
PESD12VL2BT	12	13.3	1	19	32	5	1	20
PESD15VL2BT	15	16.7	1	24	38	5	1	20
PESD24VL2BT	24	26.7	1	43	52	5	1	35

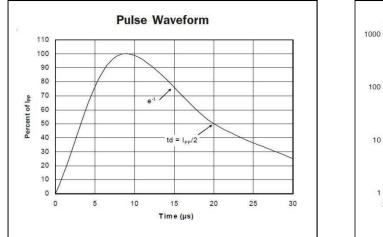
Electrical Characteristics@ Ta=25[°]Cunless otherwise

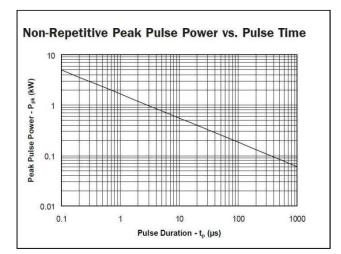
Maximum Rating @ Ta=25 °C unless otherwisespecified

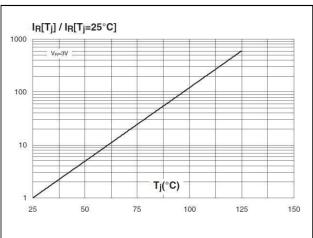
Symbol	Parameter	Ratings	Units
Р _{РК}	Peak Pulse Power (tp = 8/20µs)	300	Watts
TL	Lead Soldering Temperature	260(10sec.)	°C
TJ	Operating Temperature	-55 to +125	°C
T _{STG}	Storage Temperature	-55 to +150	°C

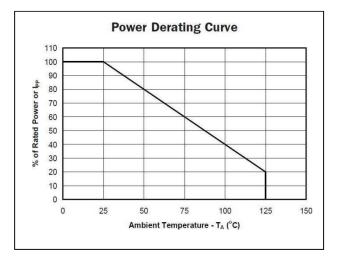


Typical Characteristics@ Ta=25°C unless otherwise specified



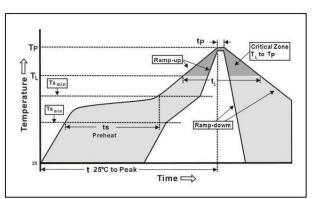






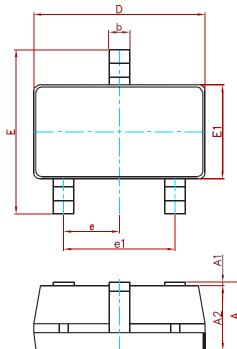
Soldering Parameters

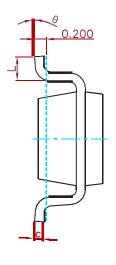
Reflow Condition		Fb – Free assembly	
	- Temperature Min (T _{s(Min)})	150°C	
Pre Heat	- Temperature Max (T _{s(Max)})	200°C	
	-Time (Min to max) (t _s)	60 - 180 secs	
Average r (T _L) to pea	ramp up rate (Liquidus) Temp Ik	3°C/second Max	
T _{s (Max)} to 1	- Ramp-up Rate	3°C/second Max	
Reflow	- Temperature (T _L) (Liquidus)	217°C	
	- Temperature (t _l)	60 – 150 seconds	
Peak Tem	perature (T _P)	250 ^{+0/-5} °C	
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds	
Ramp-dowm Rate		6°C/second Max	
Time 25°C to peak Temperature (T _P)		8 minutes Max.	
Do not exceed		260°C	





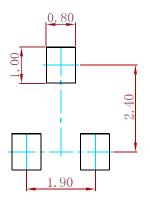
PACKAGE MECHANICAL DATA





Symbol	Dimensions I	n Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
A	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.300	0.500	0.012	0.020	
С	0.100	0.200	0.004	0.008	
D	2.820	3.020	0.111	0.119	
E1	1.500	1.700	0.059	0.067	
E	2.650	2.950	0.104	0.116	
е	0.950(0.950(BSC)		0.037(BSC)	
e1	1.800	2.000	0.071	0.079	
L	0.300	0.600	0.012	0.024	
0	0°	8°	0°	8°	

Suggested Pad Layout



Note: 1.Controlling dimension:in millimeters.

2.General tolerance:± 0.05mm.

3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
PESDXXXL2BT	SOT-23	3000

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