















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

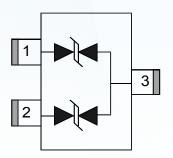
Domestic Part Number	PESD24VL2BT
Overseas Part Number	PESD24VL2BT
▶ Equivalent Part Number	PESD24VL2BT





Features

- 280W peak pulse power (tp= 8/20µs)
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 ±30kV contact ±30kV air
- IEC 61000-4-4 (EFT) 40A(5/50ns)
- IEC 61000-4-5(Lightning) 6A(8/20µs)



Applications

- Dataline
- Automatic Teller Machines
- Net works
- Power line

Mechanical Data

- SOT-23 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (t _p =8/20μs)	P _{PP}	280	W
Peak Pulse Current (t _p =8/20µs) (note1)	I _{pp}	6	А
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	30 30	kV
Lead Soldering Temperature	T∟	260/10S	$^{\circ}\!$
Junction Temperature	TJ	-55 to + 125	$^{\circ}$ C
Storage Temperature	T _{stg}	-55 to + 125	$^{\circ}$



Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				24.0	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	26.7	30.0	34.0	V
Reverse Leakage Current	I _R	V _{RWM} =24V,T=25 °C		0.1	0.5	μΑ
Peak Pulse Current	I _{PP}	t _p =8/20µs			6	А
Clamping Voltage	Vc	I _{PP} =6A,t _p =8/20μs			48	V
Junction Capacitance	Cj	V _R = 0V, f = 1MHz		12	15	pF

TypicalCharacteristics

Figure 1: Peak Pulse Power vs. Pulse Time

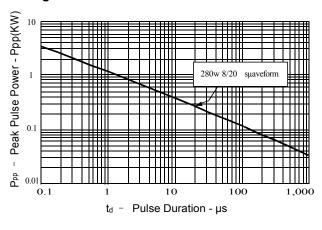


Figure 2: Power Derating Curve

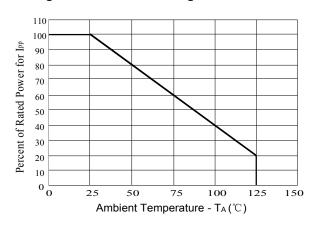


Figure3: Pulse Waveform

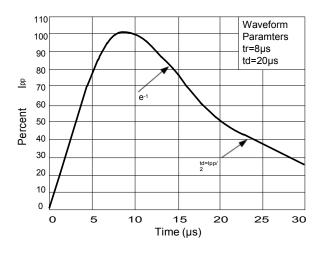
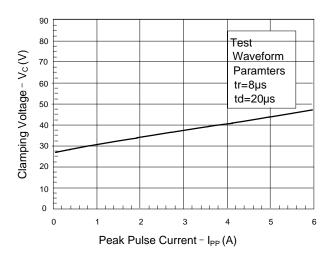
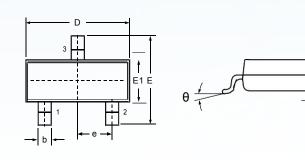


Figure 4: Clamping Voltage vs.lpp





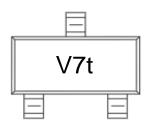
Outline Drawing - SOT-23



DIMENSIONS					
SYMBOL	MILLIMETER		INCHES		
OTHIBOL	MIN	MAX	MIN	MAX	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
D	2.800	3.000	0.110	0.118	
b	0.300	0.500	0.012	0.020	
Е	2.250	2.550	0.089	0.100	
E1	1.200	1.400	0.047	0.055	
е	0.950 BSC		0.037 BSC		
L	0.300	0.500	0.012	0.020	
θ	0	8°	0	8°	



Marking



Ordering information

Order code	Package	Baseqty	Deliverymode
PESD24VL2BT	SOT-23	3000	Tape and reel



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