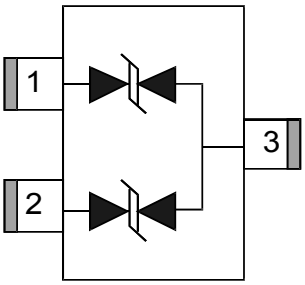
Features

- 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	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	30 30	kV
Lead Soldering Temperature	T_L	260/10S	℃
Junction Temperature	T_J	-55 to + 125	℃
Storage Temperature	T_{stg}	-55 to + 125	℃

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℃		0.1	0.5	μA
Peak Pulse Current	I_{PP}	t_p=8/20μs			6	A
Clamping Voltage	V_C	I_{PP}=6A,t_p=8/20μs			48	V
Junction Capacitance	C_j	V_R= 0V, f = 1MHz		12	15	pF

TypicalCharacteristics

Figure 1: Peak Pulse Power vs. Pulse Time

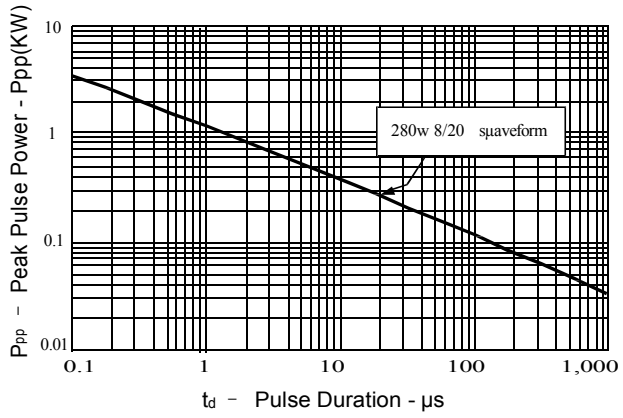


Figure 2: Power Derating Curve

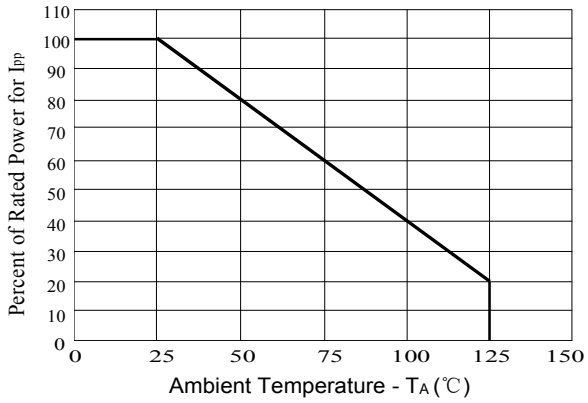


Figure3: Pulse Waveform

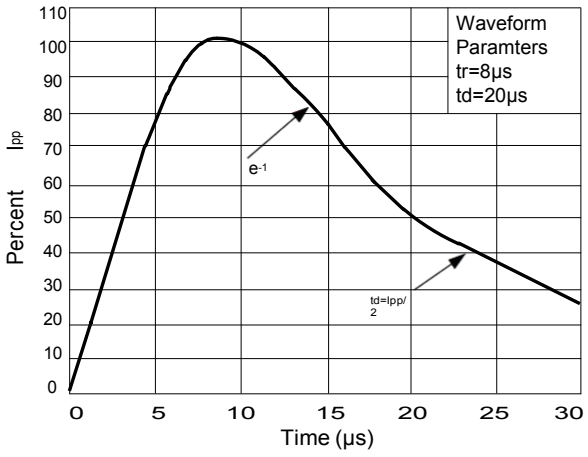
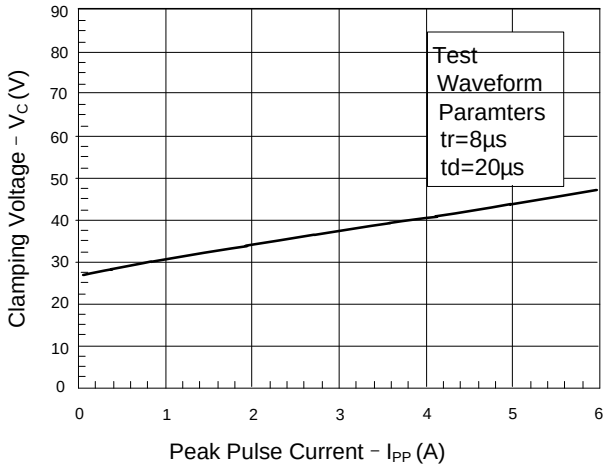
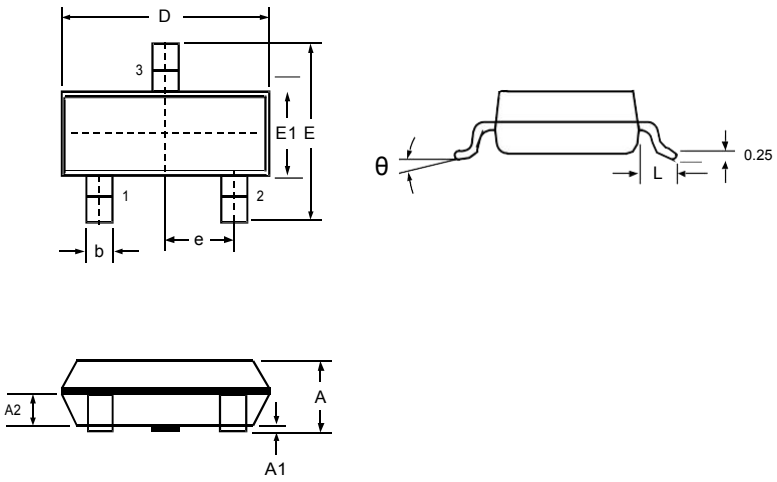


Figure 4: Clamping Voltage vs.Ipp

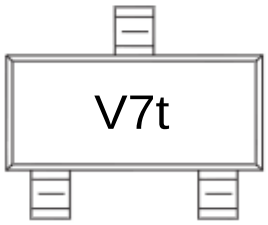


Outline Drawing – SOT-23



DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	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
E	2.250	2.550	0.089	0.100
E1	1.200	1.400	0.047	0.055
e	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
UMW PESD24VL2BT	SOT-23	3000	Tape and reel

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

UMW:

BAT54 TMP75AIDGKR XC6206P302PR XC6206P362MR LM2903DR LM293DR SN74LVC1G126DRYR SN74LVC2G07DBVR LM317MDT FQD17P06TM LMV722IDR 78M08 HT7550S LM2576HVS-ADJ P4SMA6.8CA TSV6291ILT BAS21S FDD4685 HT7330-A LM2596HVS-12 SI2318A TSV611ILT SN74LVC1G32DRYR 1N60L AMS1117-1.5 LMV612MAX PESD24VL1BA SN74LV1T08DCKR SMBJ188CA SN74AHCT1G86DBVR