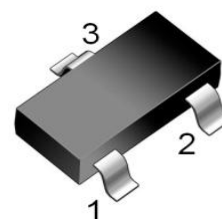
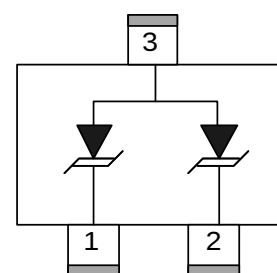


ESD

Features

350 Watts peak pulse power ($t_p = 8/20\mu s$)
 Transient protection for high speed data lines to
 IEC 61000-4-2 (ESD) $\pm 15kV$ (air), $\pm 8kV$ (contact)
 IEC 61000-4-4 (EFT) 40A (5/50ns)
 Working voltages : 5.3V
 Protects one bidirectional line or two unidirectional lines
 Low operating and clamping voltages
 Solid-state silicon avalanche technology
 Marking: CAM


SOT-23


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

Maximum Rating @ Ta=25°C unless otherwise specified

Symbol	Parameter	Ratings	Units
P_{PK}	Peak Pulse Power ($t_p = 8/20\mu s$)	350	Watts
T_L	Lead Soldering Temperature	260(10sec.)	°C
T_J	Operating Temperature	-55 to +125	°C
T_{STG}	Storage Temperature	-55 to +150	°C

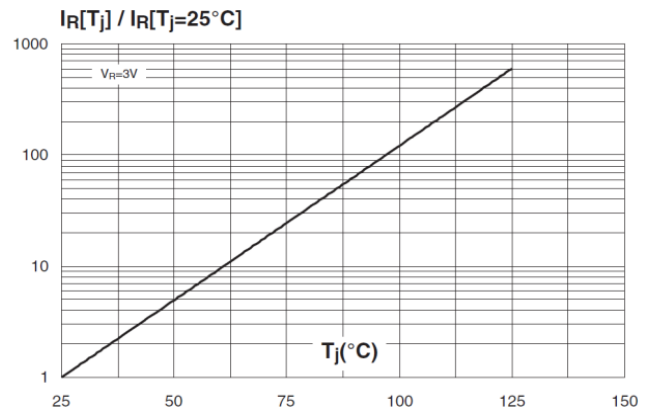
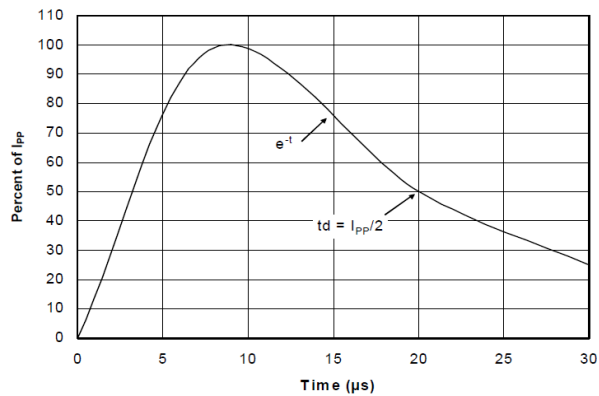
Electrical Characteristics@ Ta=25°C unless otherwise

Part Number	Marking	V_{DRM}	I_{DRM}	V_{BR}	I_R	V_c	I_{pp}	V_c	I_{pp}	CO
		V	μA	V	mA	V	A	V	A	pF
			MAX	MIN		MAX		MAX		MAX
ESDA5V3L	CAM	5.3	1	6	1	9.8	1	20	17	300

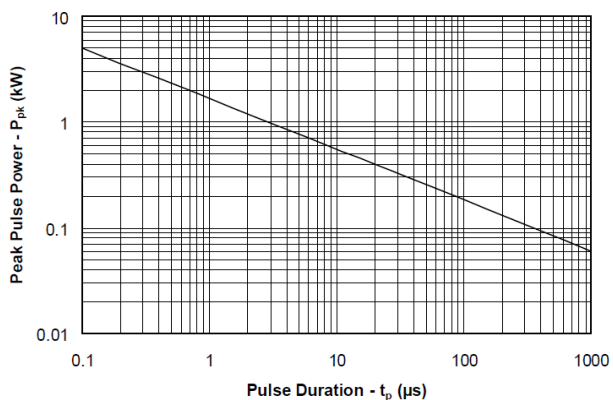
ESD

Typical Characteristics@ $T_a=25^{\circ}\text{C}$ unless otherwise specified

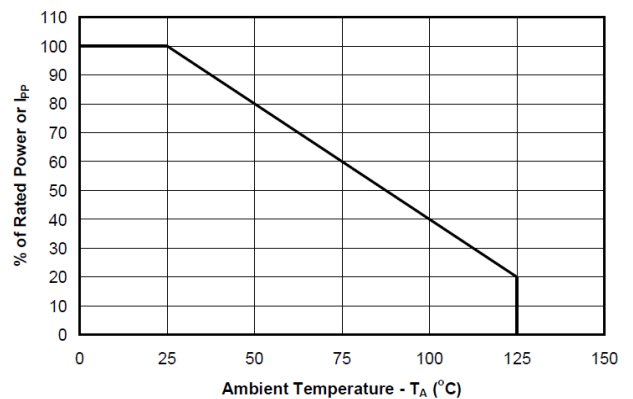
Pulse Waveform



Non-Repetitive Peak Pulse Power vs. Pulse Time

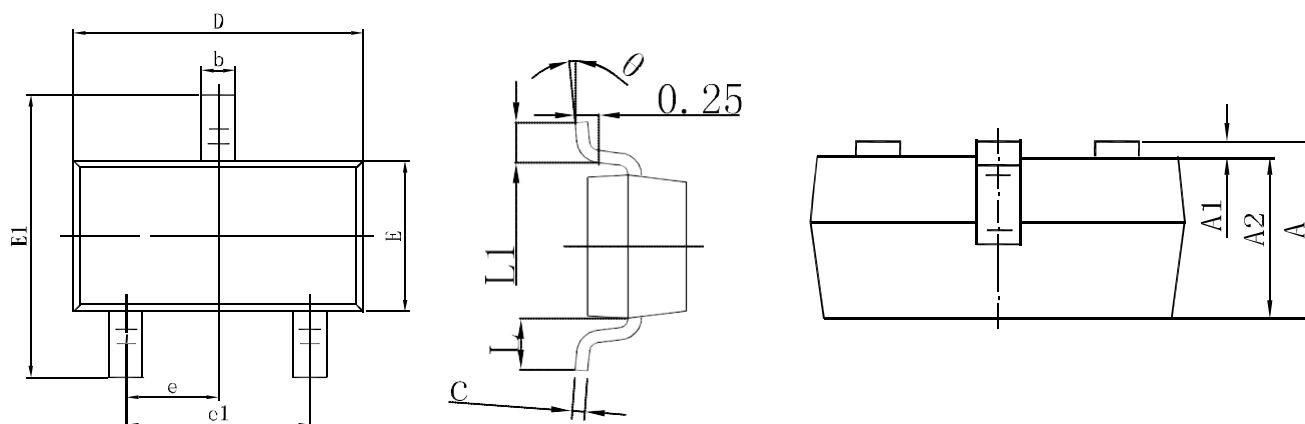


Power Derating Curve



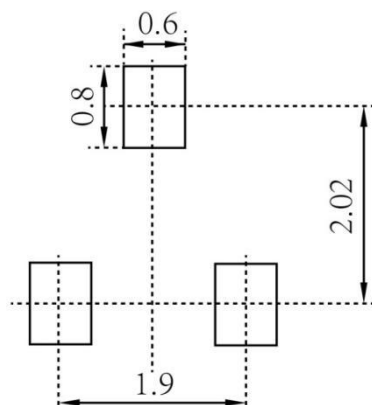
ESD

SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In 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
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23 Suggested Pad Layout



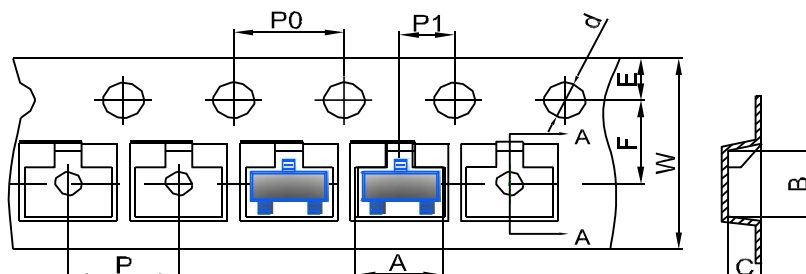
Note:

1. Controlling dimension: in millimeters
2. General tolerance: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

ESD

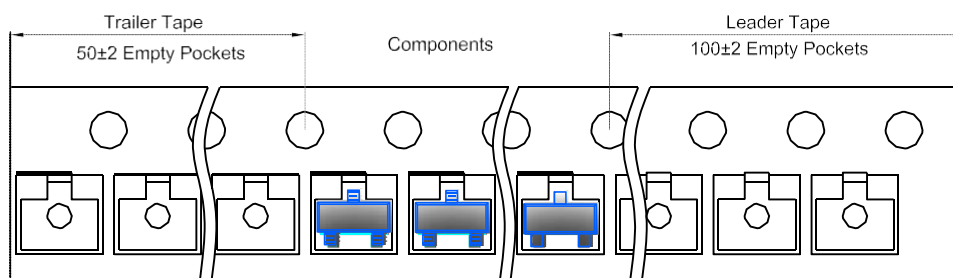
SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

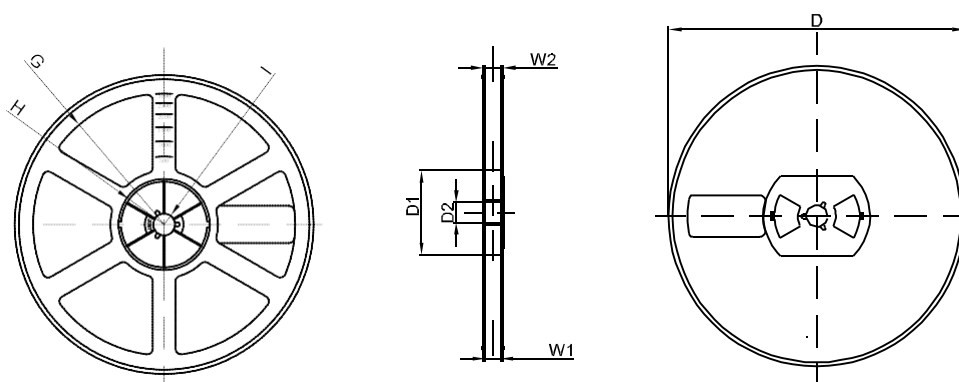


DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

SOT-23 Tape Leader and Trailer



SOT-23 Reel



DIMENSIONS ARE IN MILLIMETER								
REEL OPTION	D	D1	D2	G	H	I	W1	W2
7" DIA	Ø178	54.40	13.00	R78	R25.60	R6.50	9.50	12.30
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1