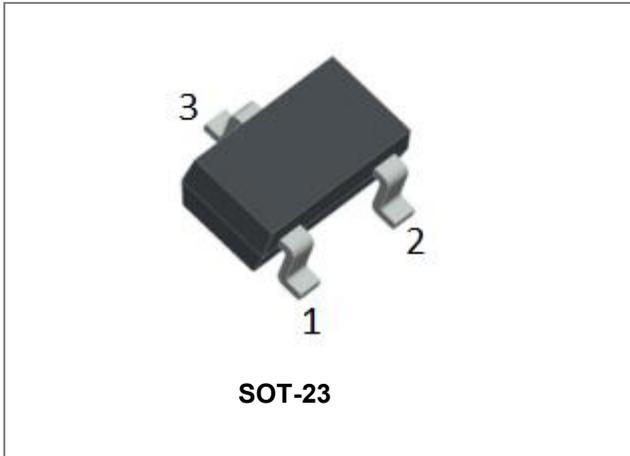


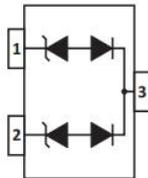
S23LCC05 TVS ARRAY



Features

- Compatible with IEC 61000-4-2 (ESD): Air 15kV, Contact 8kV
- Compatible with IEC 61000-4-4 (EFT): 40A, 5/50ns
- Compatible with IEC 61000-4-5 (Surge): 12A, 8/20µs - Level 1(Line Ground) & Level 2(Line-Line)
- Low Clamping Voltage
- RoHS Compliant
- Small SMD plastic package
- Terminals finish: 100% Pure Tin
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Schematic & Pin Configuration



Application

- High-Speed Data Transmission Interfaces
- Cellular Phones
- MP3 Players
- Portable Electronics
- Wireless Bus Protection

Maximum Ratings@T_A=25°C unless otherwise specified

Parameter	Symbol	Value	Units
Peak Pulse Power (tp=8/20 µs)	P _{pp}	350	W
Operating Storage Temperature Range	T _{STG}	-55 to 150	°C
Operating Junction Temperature	T _J	-55 to 150	°C

Electrical Characteristics@T_A=25°C unless otherwise specified

Characteristics	Symbol	Condition	Min.	Typ.	Max.	Units
Breakdown Voltage*	V _{BR}	IR=1mA	6	-	-	V
Reverse Standoff Voltage*	V _{RWM}	-	-	-	5	V
Reverse Leakage Current*	I _{RM}	V _R =5V	-	-	5	µA
Clamp Voltage	V _C	I _{pp} =1A tp=8/20µs	-	-	9.8	V
Diode Capacitance	C _D	V _R =0V, f=1MHz	-	-	3	pF

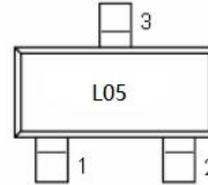
* Pulse width < 300 µs, duty cycle < 2%

Ordering Information

Device	Package	Shipping
S23LCC05	SOT-23 (Pb-Free)	3000pcs / reel

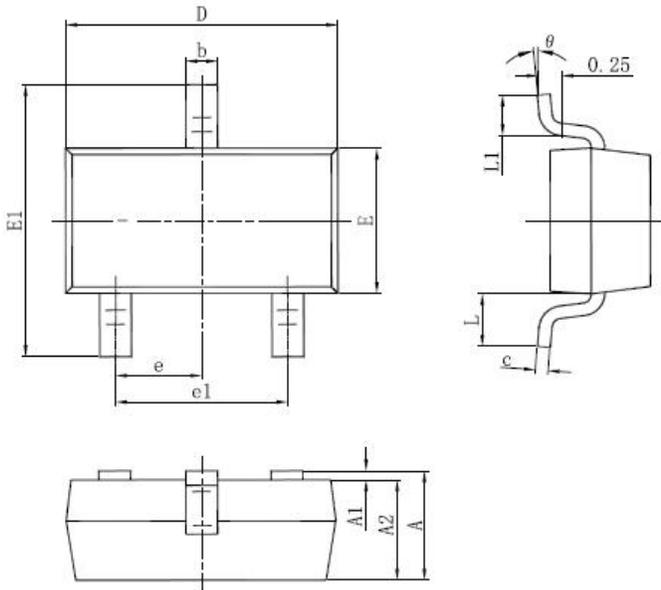
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



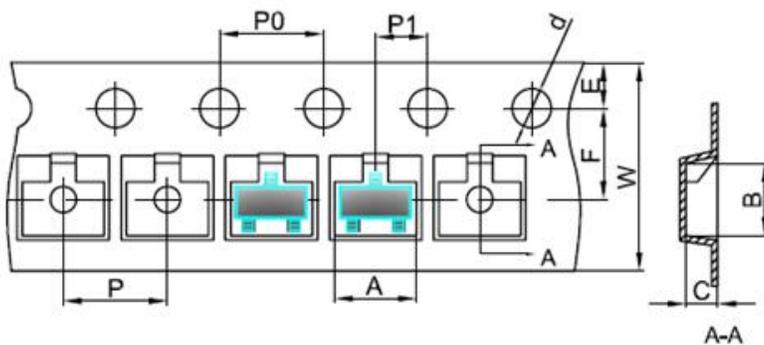
Where L05 is S23LCC05
L05 = Marking code

Mechanical Dimensions SOT-23



SYMBOL	Millimeters		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°

Carrier Tape Specification SOT-23



SYMBOL	Millimeters	
	Min.	Max.
A	3.05	3.25
B	2.67	2.87
C	1.12	1.32
d	1.40	1.60
E	1.65	1.85
F	3.40	3.60
P	3.90	4.10
P0	3.90	4.10
P1	1.90	2.10
W	7.90	8.30

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