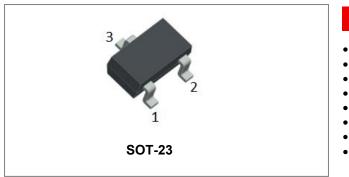


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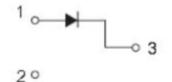
SMBD001030 SCHOTTKY RECTIFIER



Features

- Schottky Barrier Chip
- Extremely Low Minority Carrier Lifetime
- Very Low Capacitance
- Low Reverse Leakage
- High-efficiency
- 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



Mechanical Characteristics

- Case: SOT-23, Molded Plastic
- Terminals: Plated leads Solderable per MIL-STD-202, Method 208
- Mounting Position: Any
- Weight: 0.008g

Maximum Ratings and Electrical Characteristics@T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Units
Peak Reverse Voltage	V _R	30	V
Average Rectified Output Current	lf(AV)	0.01	Α
Forward Voltage $@I_F = 10mA, T_A = 25^{\circ}C$ $@I_F = 10mA, T_A = 125^{\circ}C$	V _{FM}	0.70 0.45	V
Peak Reverse Current @ VR=25V,T _A = 25°C	I _{RM}	0.2	μ A
Total Device Dissipation @ TA = 25°C	PF	200	mW
Total Capacitance (VR = 15 V, f = 1.0 MHz)	СТ	2	pF
Operating Junction Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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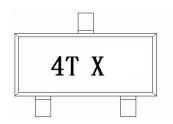


Ordering Information

Device	Package	Shipping
SMBD001030	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



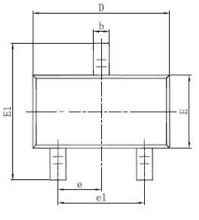
Where X is Date Code

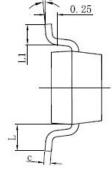
4T = Marking code

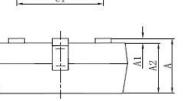
Cautions: Molding resin Epoxy resin UL:94V-0

Inches

Mechanical Dimensions SOT-23



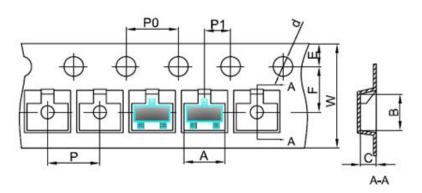




SYMBOL	MIN.	MAX.	MIN.	MAX.
A	0.890	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
с	0.076	0.170	0.003	0.007
D	2.650	3.050	0.104	0.120
E	1.190	1.400	0.047	0.055
E1	2.100	2.550	0.083	0.100
е	0.950 TYP.		0.037 TYP.	
e1	1.780	2.050	0.070	0.081
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

Millimeters

Carrier Tape Specification SOT-23



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

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