

# SCHOTTKY BARRIER DIODE

BAT30L  
S-BAT30L

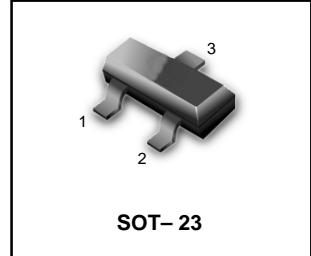
**●Features**

Extremely Low Forward Voltage 0.3 V (max) @ IF = 10 mA  
S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

**●Construction**

Silicon epitaxial planar

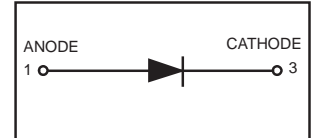
- We declare that the material of product compliance with RoHS requirements.



SOT-23

**DEVICE MARKING AND ORDERING INFORMATION**

Device	Marking	Shipping
BAT30L S-BAT30L	T30	3000/Tape&Reel



**MAXIMUM RATINGS** (T<sub>A</sub> = 25°C)

Parameter	Symbol	Limits	Unit
DC reverse voltage	V <sub>R</sub>	30	V
Mean rectifying current	I <sub>o</sub>	200	mA
Peak forward surge current*	I <sub>FSM</sub>	1	A
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-40~+125	°C

\*60Hz for 1cycle.

**ELECTRICAL CHARACTERISTICS**(T<sub>A</sub>=25°C)

Parameter	Symbol	Min.	Typ	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	0.30	V	I <sub>F</sub> =10mA
Reverse voltage	V <sub>R</sub>	30	-	-	V	I <sub>R</sub> =500uA

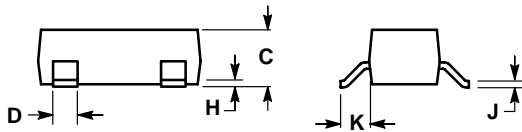
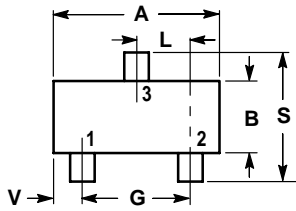


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### NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M,1982
2. CONTROLLING DIMENSION: INCH.



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.1102	0.1197	2.80	3.04
B	0.0472	0.0551	1.20	1.40
C	0.0350	0.0440	0.89	1.11
D	0.0150	0.0200	0.37	0.50
G	0.0701	0.0807	1.78	2.04
H	0.0005	0.0040	0.013	0.100
J	0.0034	0.0070	0.085	0.177
K	0.0140	0.0285	0.35	0.69
L	0.0350	0.0401	0.89	1.02
S	0.0830	0.1039	2.10	2.64
V	0.0177	0.0236	0.45	0.60

