

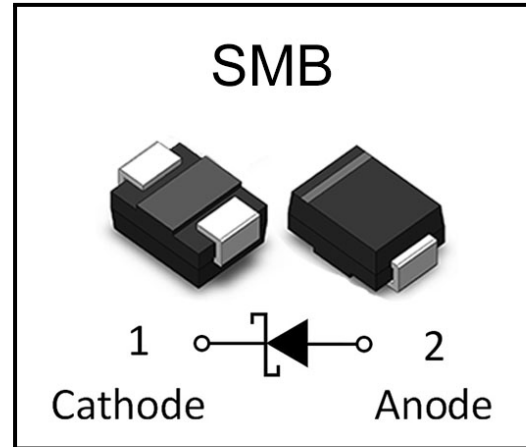
SS54BL

Schottky Barrier Rectifier

Features

- For surface mounted application
- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds at terminals.

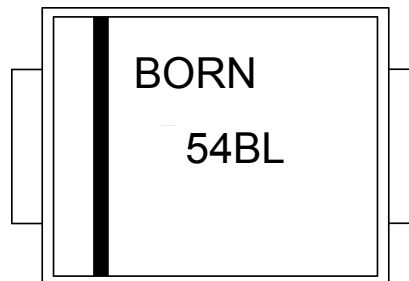
Package



Description

- Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- Terminal: Solder plated
- Polarity: Color band denotes cathode
- RoHS 2.0 Compliant, Halogen free

Marking



Ordering information

Part Number	Marking	Packing Quantity	Industry Standard
SS54BL	54BL	3000	Tape/Reel, 13" reel



SS54BL

Schottky Barrier Rectifier

Maximum Ratings (@T_A=25°C unless otherwise noted)

Symbol	Parameters	Value	Units
V _{RRM}	Maximum Recurrent Peak Reverse Voltage	45	V
I _{F(AV)}	Maximum Average Forward Rectified Current	5	A
I _{FSM}	Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	120	A
R _{θJA}	Thermal Resistance From Junction to Ambient	55	°C/W
R _{θJC}	Thermal Resistance From Junction to Case	16	°C/W
T _J	Operating Junction Temperature Range	-55 to +125	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

Electrical Characteristics (@T_A=25°C unless otherwise noted)

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V _F	Forward Voltage	I _F = 5A	—	0.43	0.45	V
I _R	Reverse Current	V _R = 45V	—	64	200	uA
C _J	Junction Capacitance	V _R =4V, f=1MHz	—	—	350	pF



Ratings and Characteristic Curves

Figure 1: Typical Forward Current Derating Curve

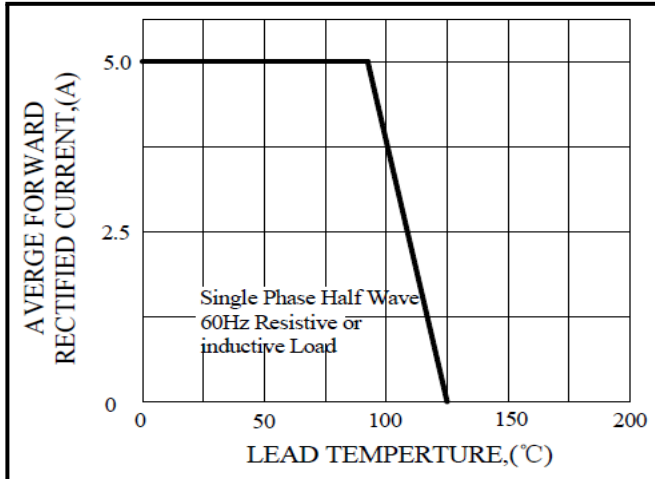


Figure 2: Typical Instantaneous Forward Current

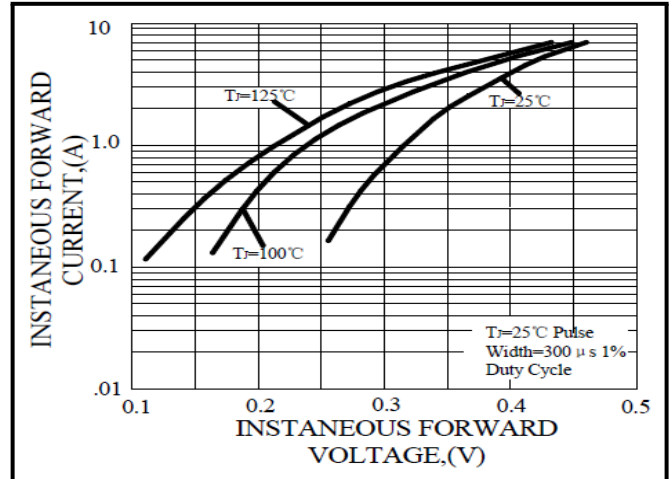


Figure 3: Max. Non-Repetitive Forward Surge Current

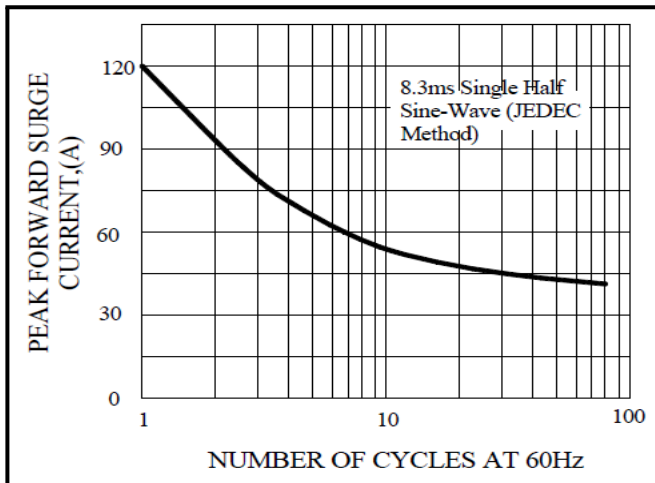
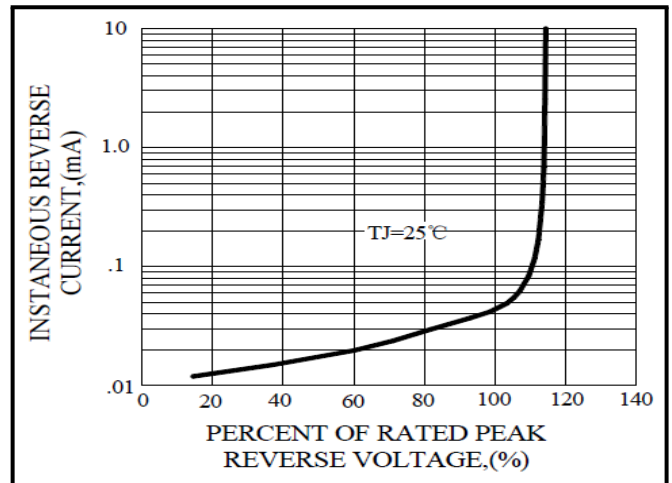


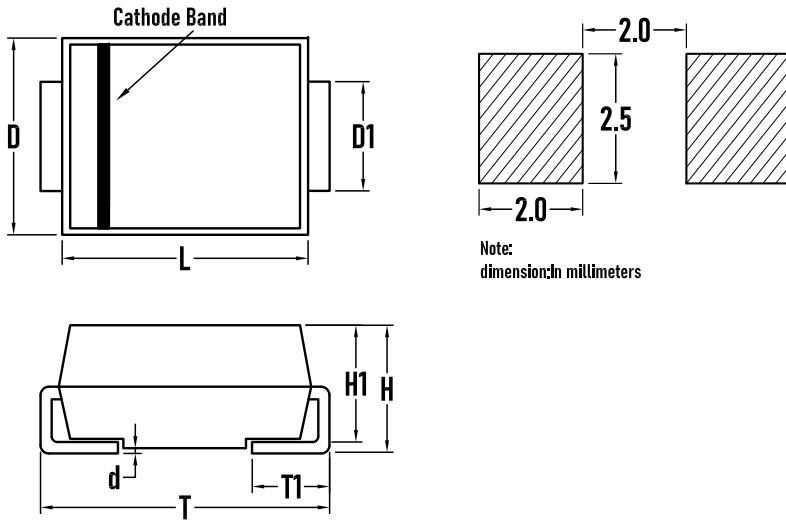
Figure 4: Typical Reverse Characteristics



SS54BL

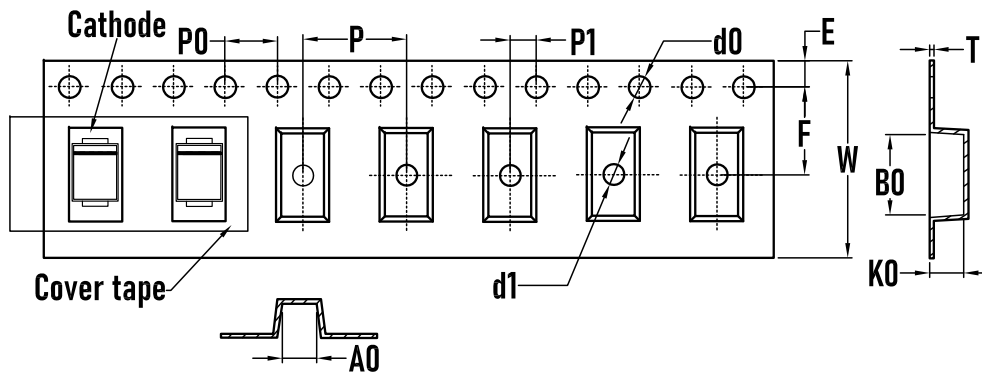
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Outline Drawing - SMB



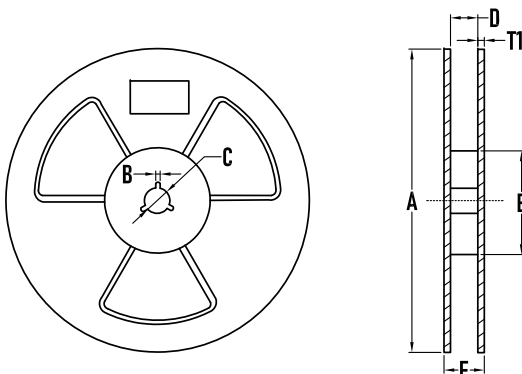
SYMBOL	MILLIMETER		Inches	
	MIN.	MAX.	MIN.	MAX.
D	3.3	3.9	0.130	0.154
D1	1.7	2.3	0.067	0.091
T	5.1	5.7	0.201	0.224
T1	0.8	1.6	0.031	0.063
d	—	0.3	—	0.012
H1	2.0	2.4	0.079	0.094
H	2.1	2.5	0.083	0.098
L	4.0	4.7	0.157	0.185

Packaging Tape - SMB



SYMBOL	MILLIMETER
A0	3.60±0.1
B0	5.45±0.1
d0	1.50±0.1
d1	1.50±0.1
E	1.75±0.1
F	5.50±0.1
K0	2.30±0.1
P	8.00±0.1
P0	4.00±0.1
P1	2.00±0.1
W	12.00±0.1
T	0.22±0.02

Packaging Reel



SYMBOL	MILLIMETER
A	323±2
B	3.0±0.2
C	15.0±0.5
D	13±2
E	73±2
T1	2.2±0.2
Quantity	3000PCS

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Specifications are subject to change without notice.

Please refer to <http://www.born-tw.com> for current information.

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