

## Schottky Barrier Diode

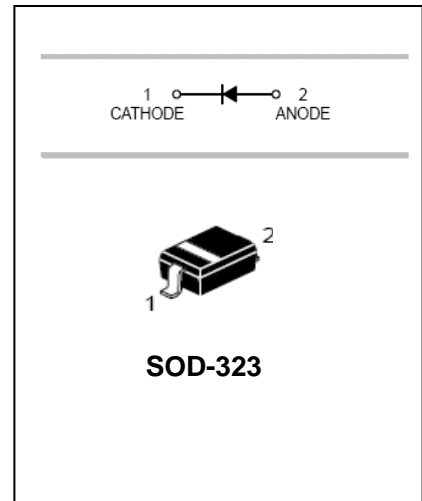
## BAT60B

### FEATURES

- Low voltage, Low inductance.
- High current rectifier schottky diode.
- For power supply.
- For detection and step-up-conversion.



Lead-free



**SOD-323**

### APPLICATIONS

- Schottky barrier detector.

### ORDERING INFORMATION

Type No.	Marking	Package Code
BAT60B	W5	SOD-323

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak reverse voltage	$V_{RM}$	10	V
DC Reverse Voltage	$V_R$	10	V
Average Rectified Output Current	$I_O$	3	A
Forward Surge Current	$I_{FSM}$	5	A
Total Power Dissipation	$P_{tot}$	1350	mW
Junction temperature	$T_j$	150	°C
Storage temperature range	$T_{stg}$	-55-150	°C

### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F=10mA$			0.3	V
		$I_F=100mA$			0.38	V
		$I_F=500mA$			0.5	V
		$I_F=1000mA$			0.6	V
Reverse current	$I_R$	$V_R=5v$			15	μA
		$V_R=8v$			25	
Capacitance between terminals	$C_T$	$V_R=5v, f=1MHz$			30	pF

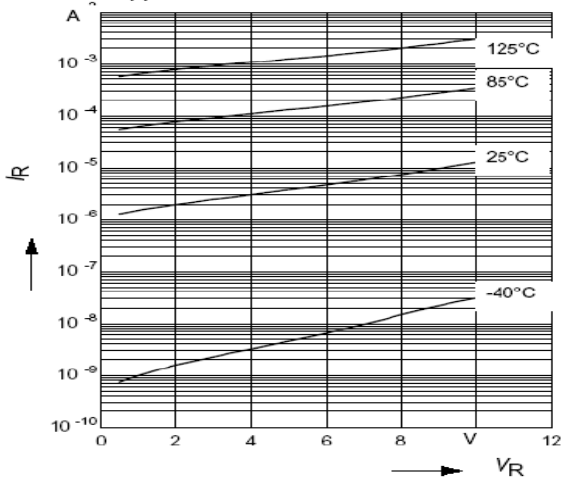
## Schottky Barrier Diode

## BAT60B

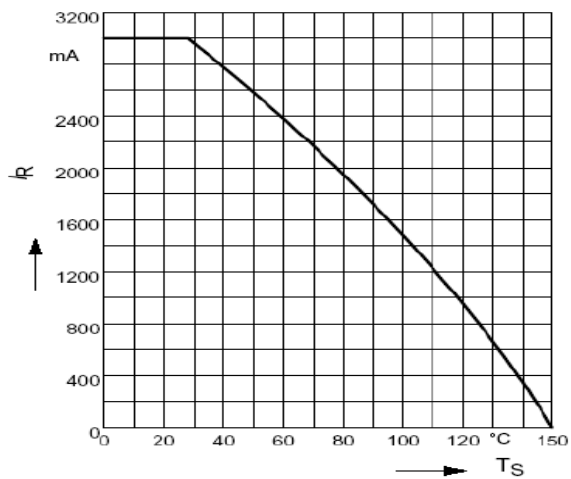
### TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Reverse current  $I_R = f(V_R)$

$T_A = \text{Parameter}$

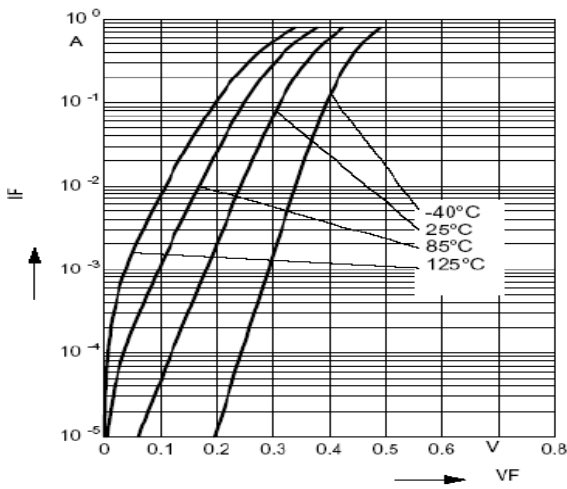


Forward current  $I_F = f(T_S)$



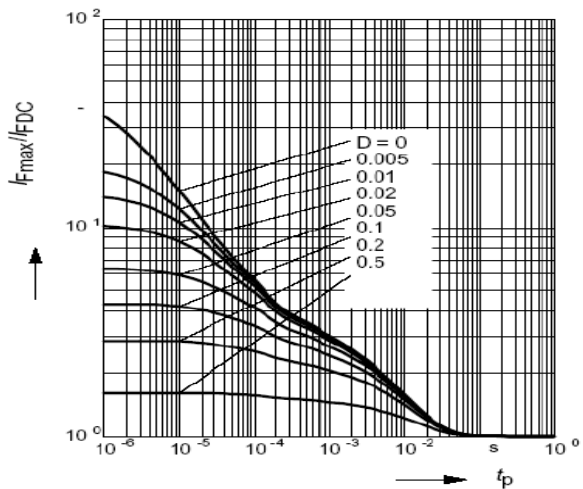
Forward current  $I_F = f(V_F)$

$T_A = \text{Parameter}$

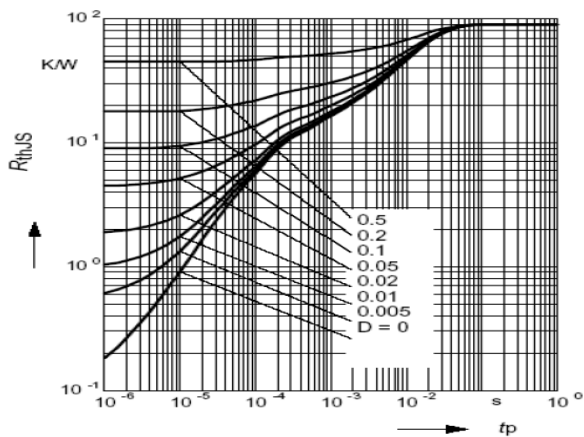


Permissible Pulse Load

$I_{Fmax}/I_{FDC} = f(t_p)$



Permissible Puls Load  $R_{thJS} = f(t_p)$



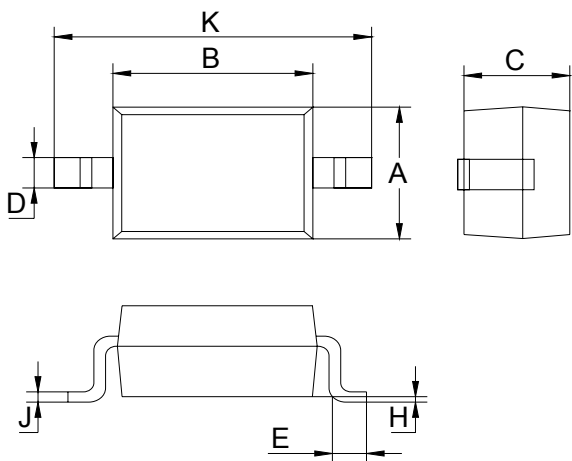
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### PACKAGE OUTLINE

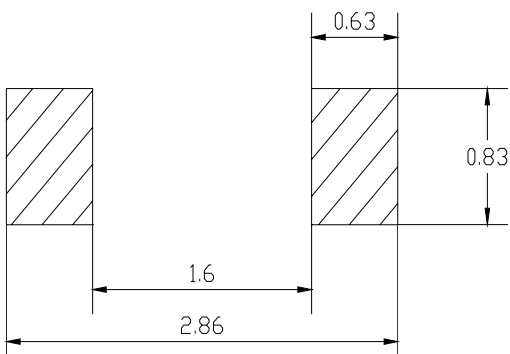
Plastic surface mounted package

SOD-323



SOD-323		
Dim	Min	Max
A	1.275	1.325
B	1.675	1.725
C	0.9 Typical	
D	0.25	0.35
E	0.27	0.37
H	0.02	0.1
J	0.1 Typical	
K	2.6	2.7
All Dimensions in mm		

### SOLDERING FOOTPRINT



Unit : mm

### PACKAGE INFORMATION

Device	Package	Shipping
BAT60B	SOD-323	3000/Tape&Reel