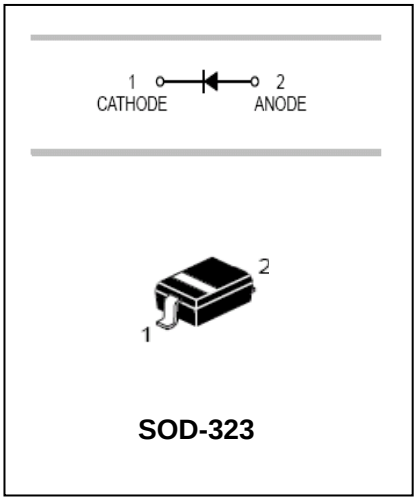
Schottky Barrier Diode **BAT60B**

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℃ 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}	350	mW
Junction temperature	T_j	150	℃
Storage temperature range	T_{stg}	-55-150	℃

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	I_F=10mA	0.2	0.24	0.3	V
		I_F=100mA	0.26	0.32	0.38	V
		I_F=500mA	0.32	0.4	0.5	V
		I_F=1000mA	0.36	0.48	0.6	V
Reverse current	I_R	V_R=5v		5	15	μA
		V_R=8v		10	25	
Capacitance between terminals	C_T	V_R=5v,f=1MHz	12	25	30	pF

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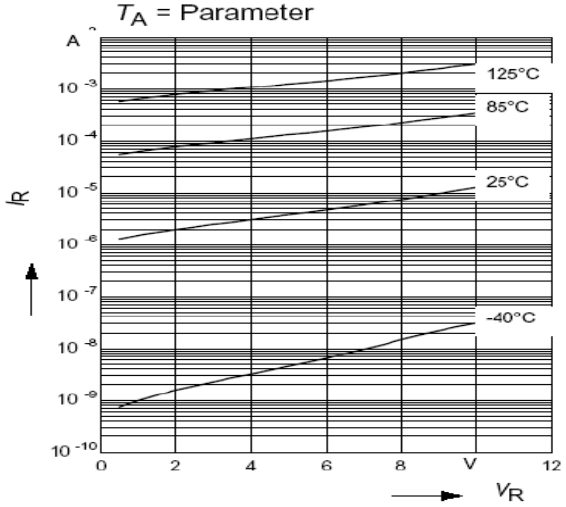
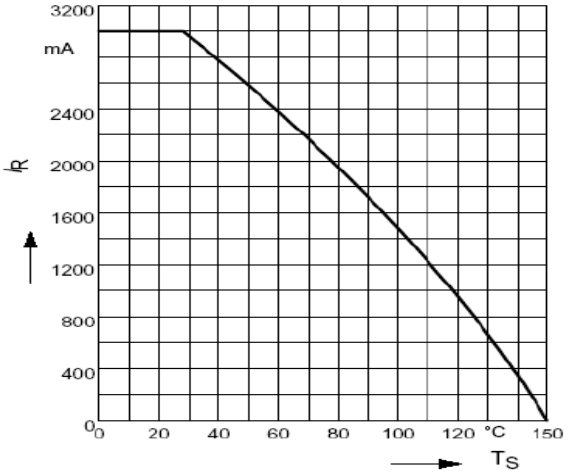
TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Reverse current $I_R = f(V_R)$

T_A = Parameter

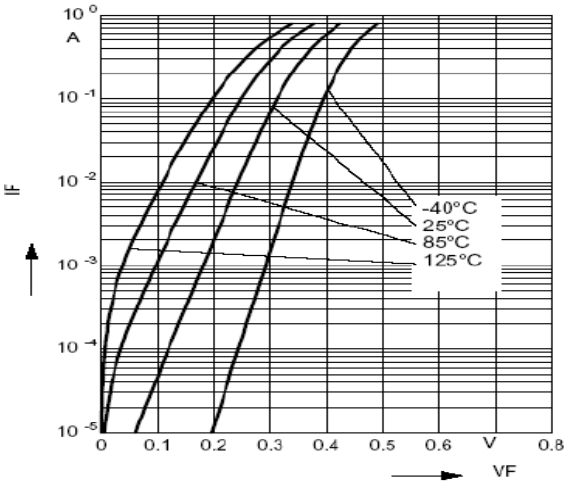


Forward current $I_F = f(T_S)$



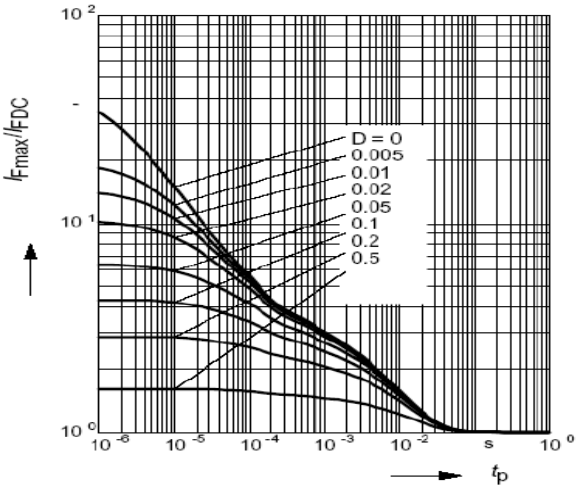
Forward current $I_F = f(V_F)$

T_A = Parameter

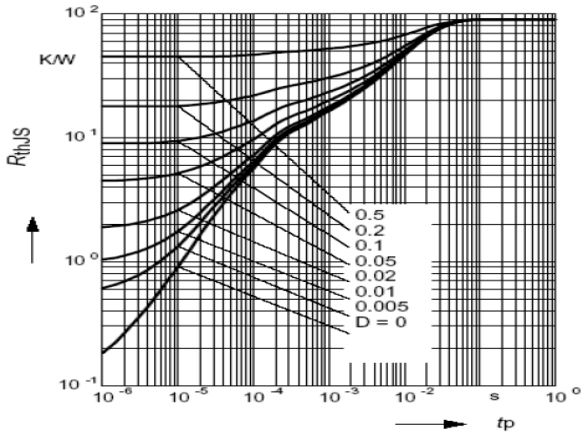


Permissible Pulse Load

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



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



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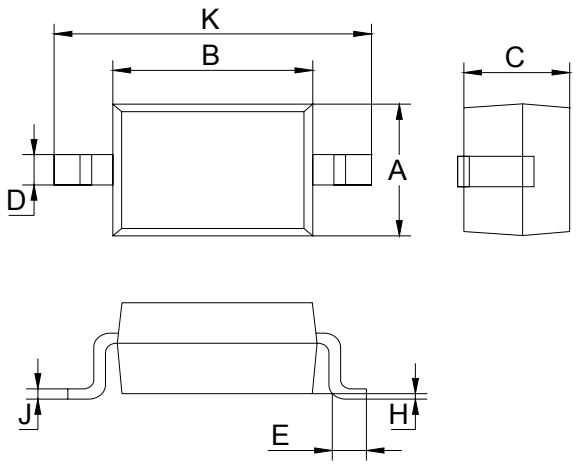
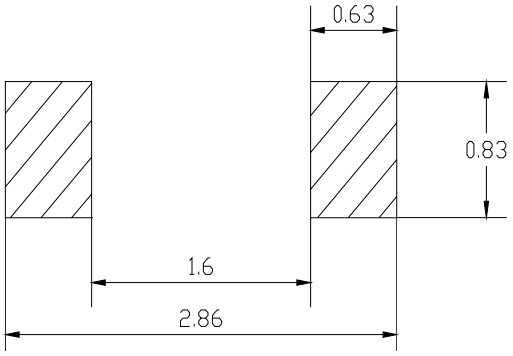
PACKAGE OUTLINE

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