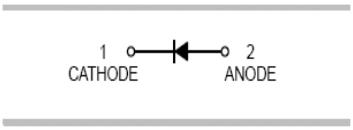
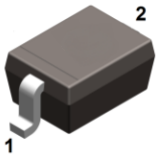
BAT60B

Small Signal Schottky Barrier Diode

FEATURES

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





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
Peak Forward Current, δ = 0.11	I_F	3	A
Forward Surge Current	I_{FSM}	5	A
Total Power Dissipation	P_D	350	mW
Junction Temperature	T_J	-55 to +150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

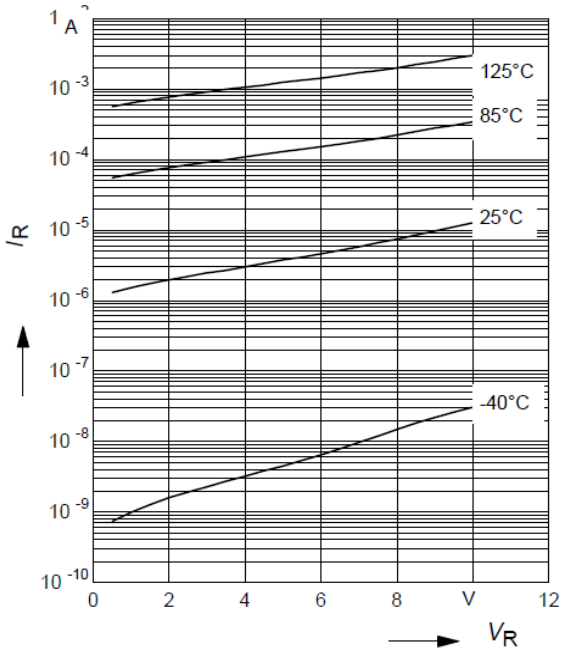
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

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

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

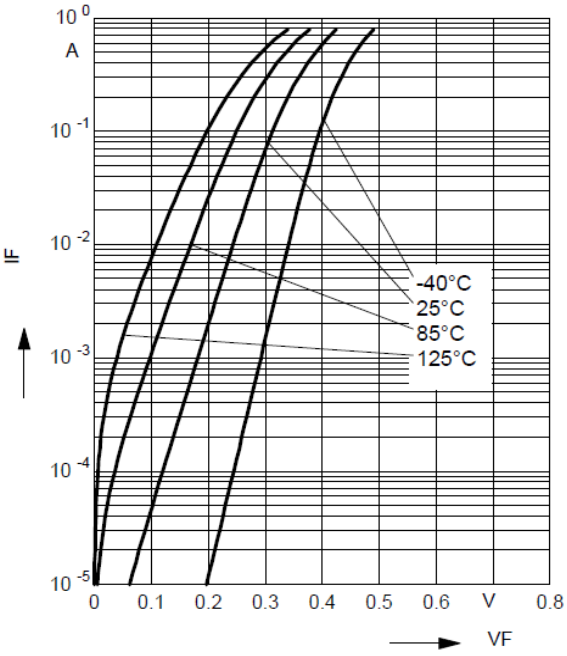
Reverse current $I_R = f(V_R)$

T_A = Parameter



Forward current $I_F = f(V_F)$

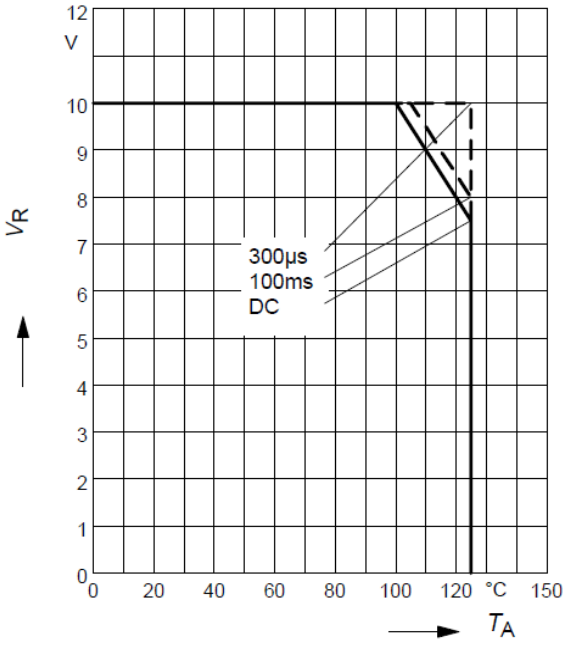
T_A = Parameter



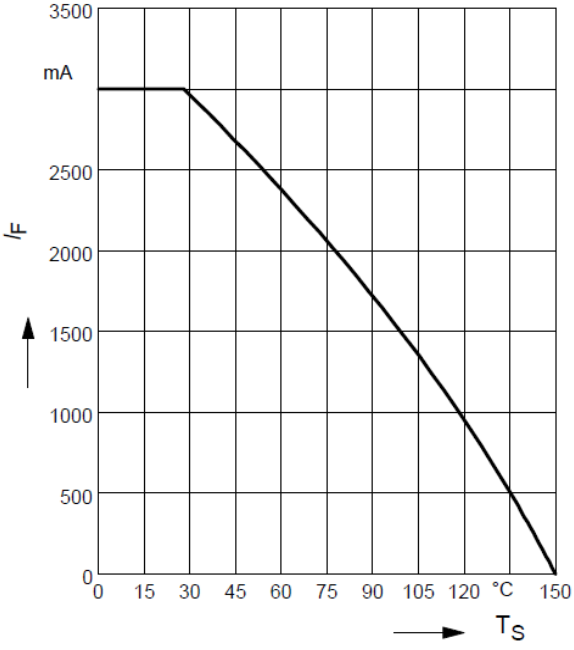
Permissible Reverse voltage $V_R = f(T_A)$

t_p = Parameter; duty cycle < 0.01

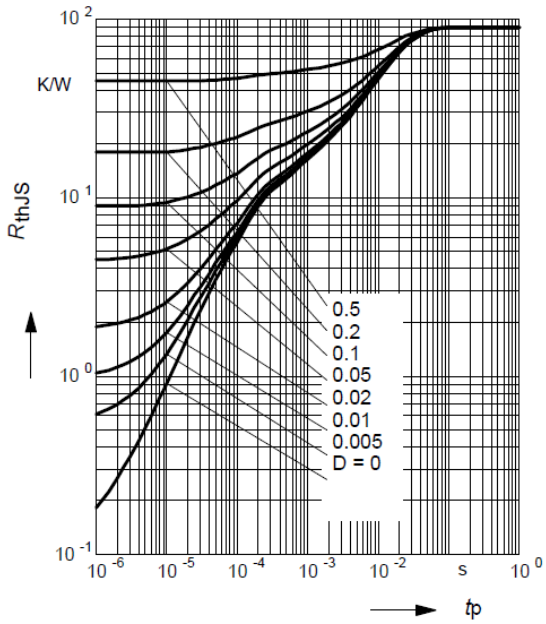
Device mounted on PCB with R_{th} = 160 K/W



Forward current $I_F = f(T_S)$

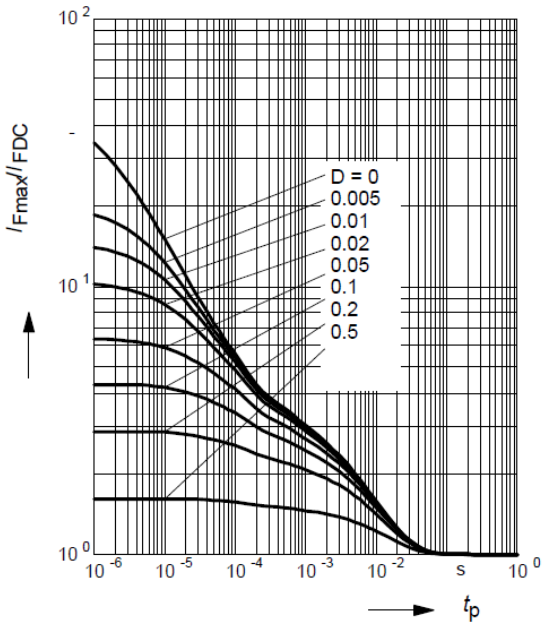


Permissible Puls Load $R_{thJS} = f(t_p)$



Permissible Pulse Load

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

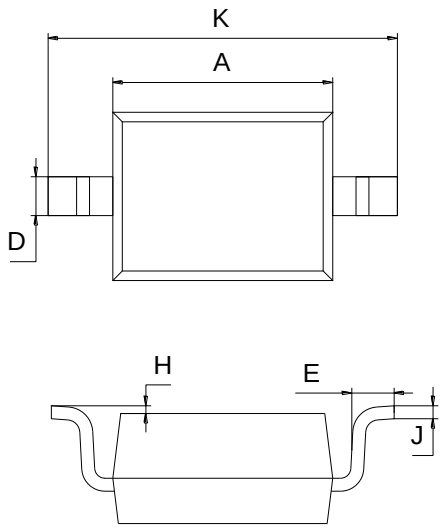


BAT60B

Small Signal Schottky Barrier Diode

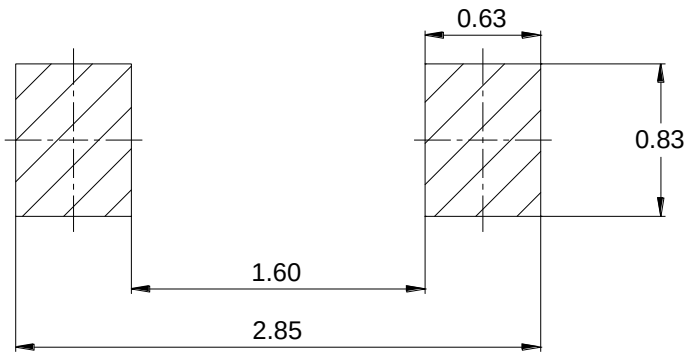
PACKAGE OUTLINE

Plastic surface mounted package SOD-323



SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

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