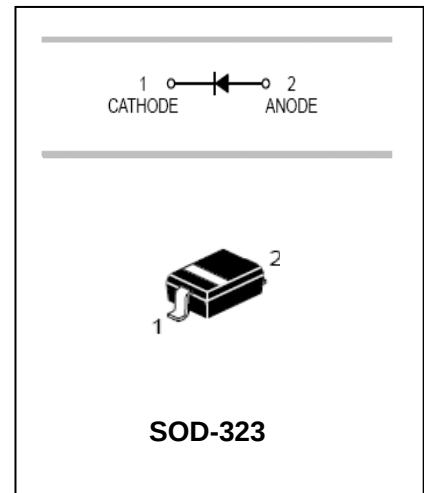


Schottky Barrier Diode

BAT60B

FEATURES

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



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}	350	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=10mA$	0.2	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

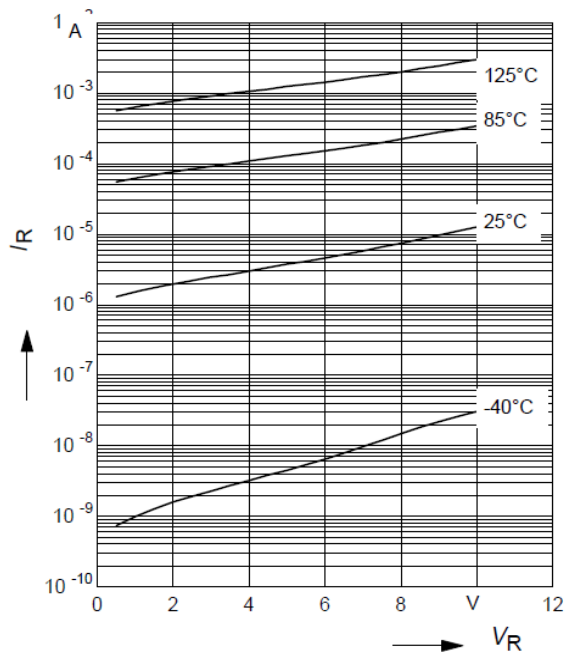
Schottky Barrier Diode

BAT60B

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

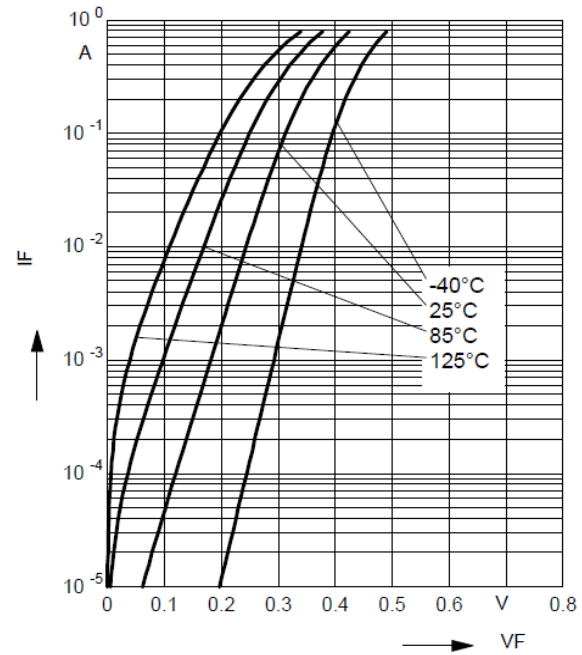
Reverse current $I_R = f(V_R)$

T_A = Parameter



Forward current $I_F = f(V_F)$

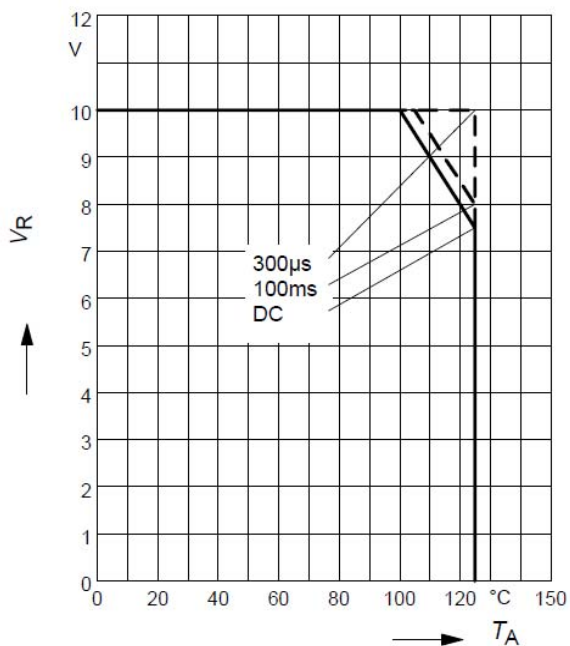
T_A = Parameter



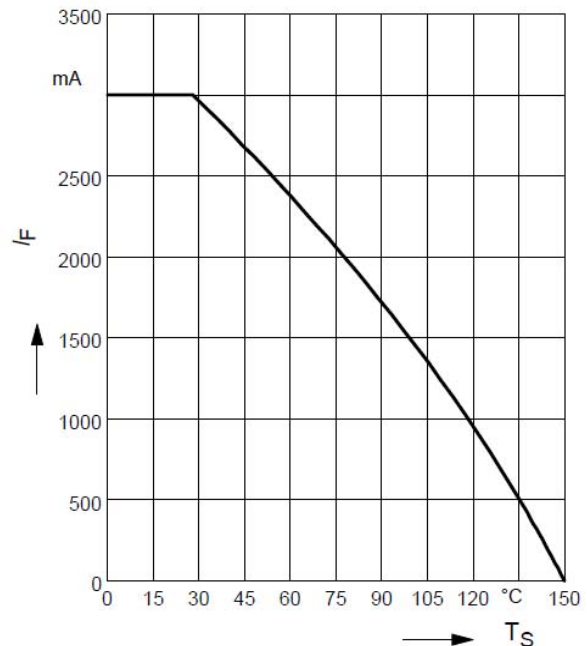
Permissible Reverse voltage $V_R = f(T_A)$

t_p = Parameter; duty cycle < 0.01

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



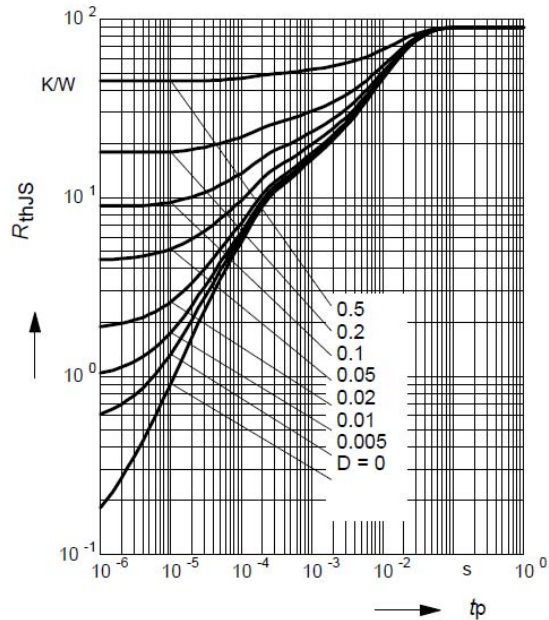
Forward current $I_F = f(T_S)$



Schottky Barrier Diode

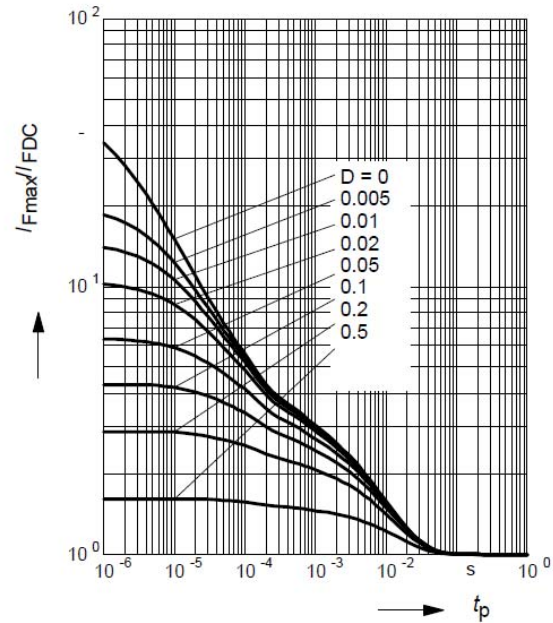
BAT60B

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



Permissible Pulse Load

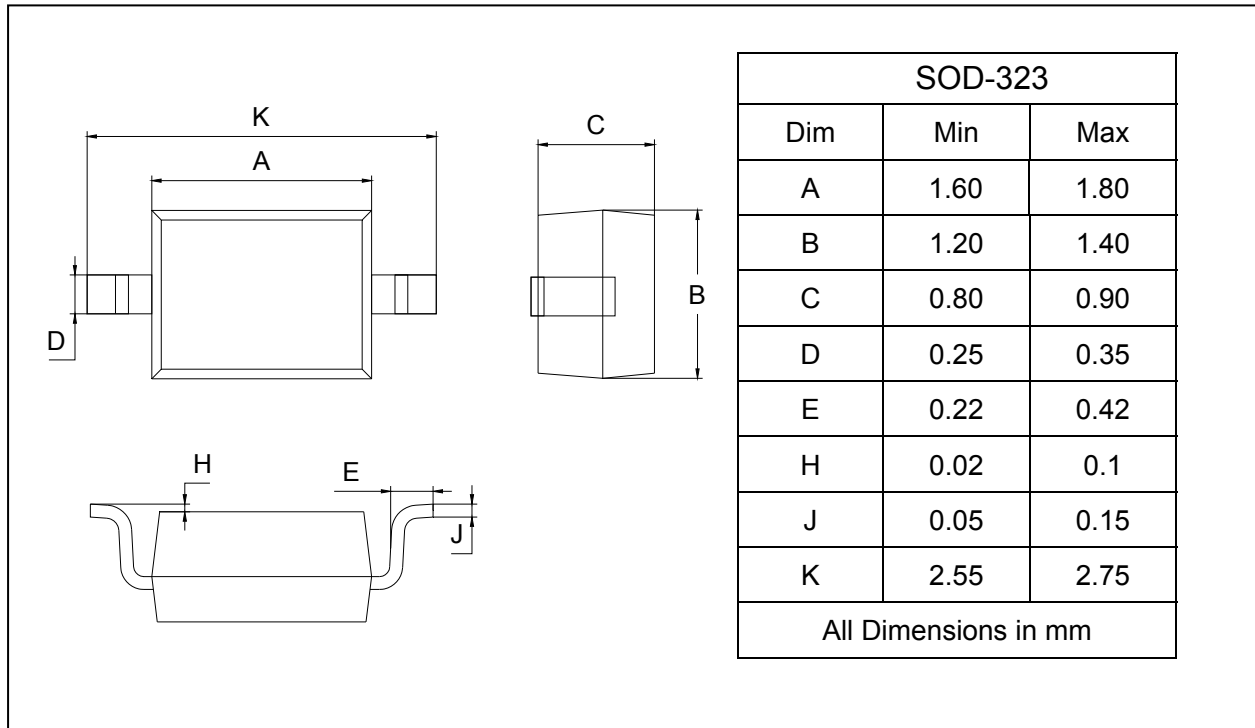
$$I_{Fmax}/I_{FDC} = f(t_p)$$



PACKAGE OUTLINE

Plastic surface mounted package

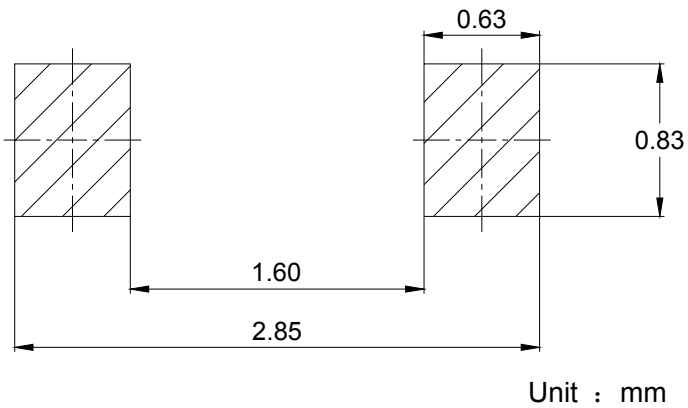
SOD-323



Schottky Barrier Diode

BAT60B

SOLDERING FOOTPRINT



PACKAGE INFORMATION

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