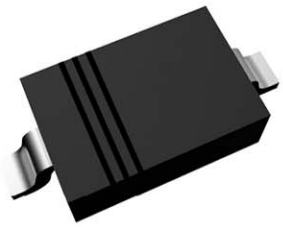
# BAT60B

SOD-323



## ● FEATURES

High current rectifier Schottky diode with low VF drop

Low voltage, low inductance

For power supply

For detection and step-up-conversion

**MARKING: 5**

## ● Maximum Ratings and Electrical Characteristics, Single Diode @$T_A$=25℃

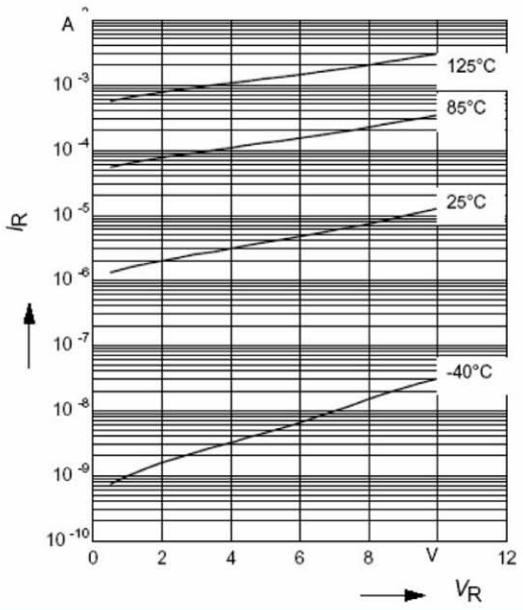
| Parameter | Symbol | Limits | Unit |
|---|---|---|---|
| Non-Repetitive Peak reverse voltage | $V_{RM}$ | 10 | V |
| Forward current | $I_F$ | 3 | A |
| Forward surge Current $t_p$=10ms | $I_{FSM}$ | 5 | A |
| Power dissipation $T_C$=25℃ | $P_{tot}$ | 350 | mW |
| Junction temperature | $T_J$ | 150 | ℃ |
| Storage temperature | $T_{STG}$ | -65~+150 | ℃ |

## ● Electrical Ratings @$T_A$=25℃

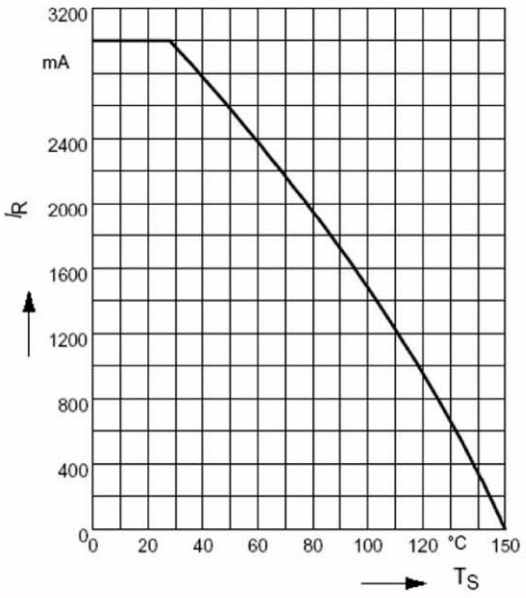
| Parameter | Symbol | Min. | Typ | Max. | Unit | Conditions |
|---|---|---|---|---|---|---|
| Forward voltage | $V_F$ | | | 300<br>380<br>500<br>600 | mV | $I_F$=10mA<br>$I_F$=100mA<br>$I_F$=500mA<br>$I_F$=1000mA |
| Reverse current | $I_R$ | | | 15<br>25 | μA | $V_R$=5V<br>$V_R$=8V |
| Capacitance between terminals | $C_T$ | | | 30 | pF | $V_R$=5V,f=1MHz |

**Reverse current** $I_R = f(V_R)$

$T_A$ = Parameter

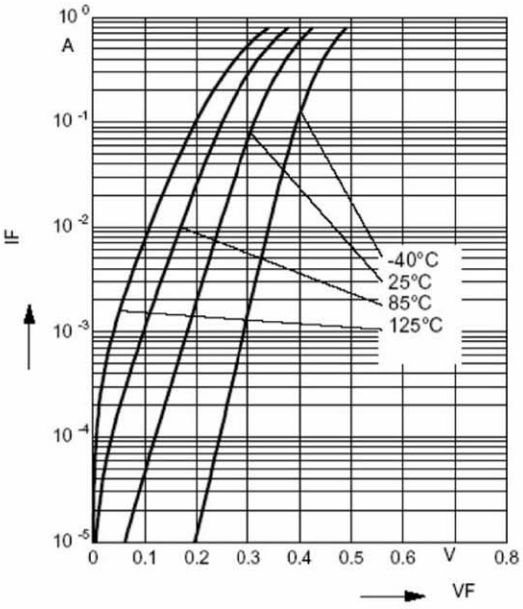



**Forward current** $I_F = f(T_S)$



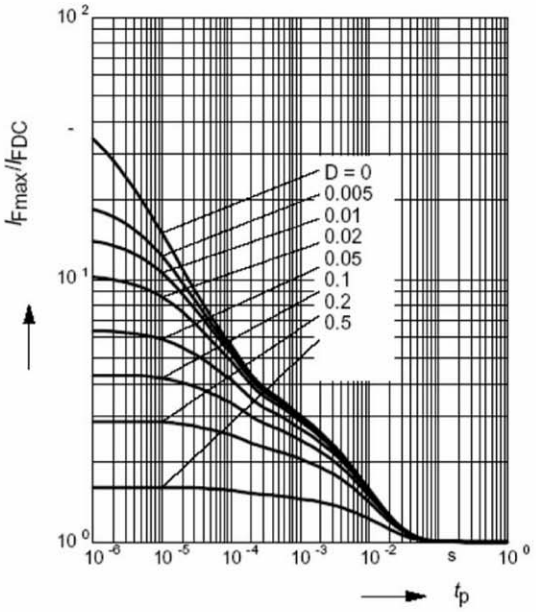

**Forward current** $I_F = f(V_F)$

$T_A$ = Parameter

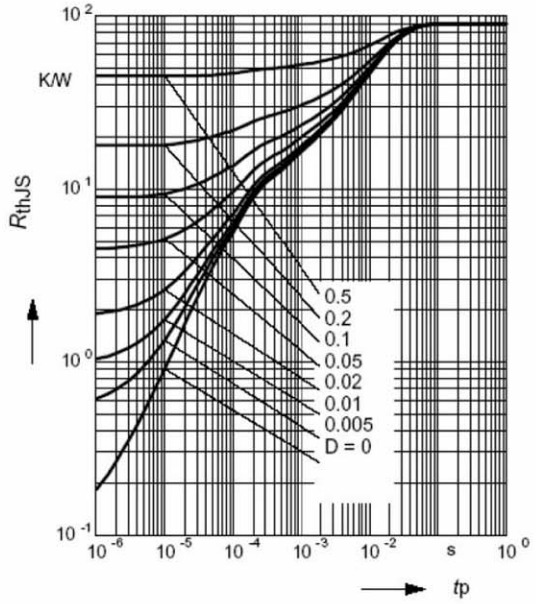



**Permissible Pulse Load**

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

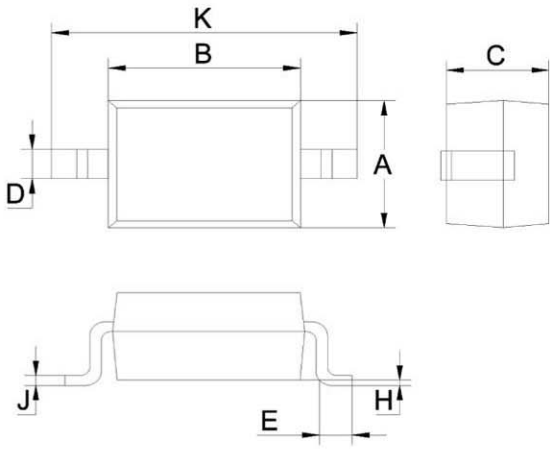


**Permissible Puls Load $R_{thJS} = f(t_p)$**



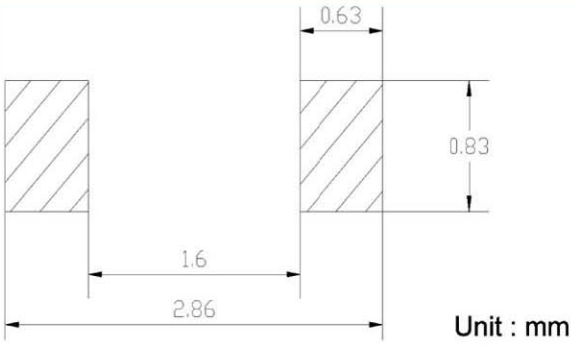
## PACKAGE OUTLINE

Plastic surface mounted package




| 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




## PACKAGE INFORMATION

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