

BAT60BHS

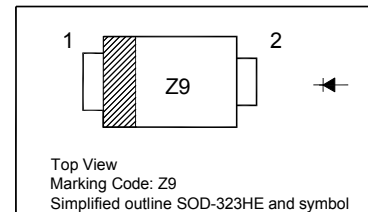
Surface Mount Schottky Barrier Rectifier

Features

- High current rectifier Schottky diode with very low V_F drop
- For power supply applications
- For clamping and protection in low voltage applications
- For detection and step-up-conversion

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	10	V
Forward Current	I_F	3	A
Non-repetitive Peak Surge Forward Current ($t \leq 8.3$ ms)	I_{FSM}	19	A
Total Power Dissipation	P_{tot}	1350	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Operating Temperature Range	T_{op}	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 10$ mA at $I_F = 100$ mA at $I_F = 500$ mA at $I_F = 1000$ mA	V_F	- - - -	0.3 0.38 0.5 0.6	V
Reverse Current at $V_R = 5$ V at $V_R = 8$ V at $V_R = 5$ V, $T_a = 80$ $^\circ\text{C}$ at $V_R = 8$ V, $T_a = 80$ $^\circ\text{C}$	I_R	- - - -	15 25 800 1500	μA
Total Capacitance at $V_R = 5$ V, $f = 1$ MHz	C_T	-	30	pF

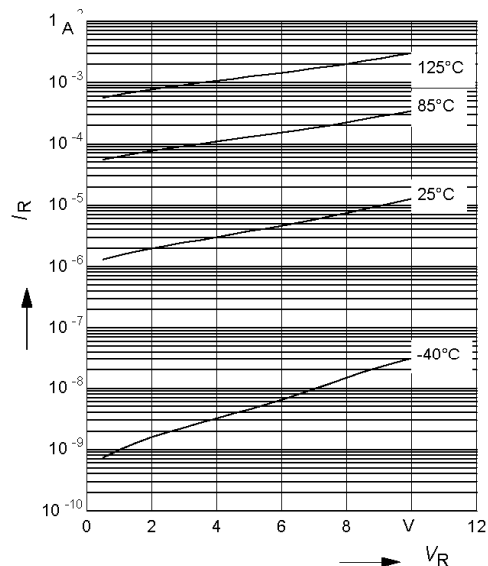
TOP DYNAMIC



Dated: 11/02/2015 Rev: 04

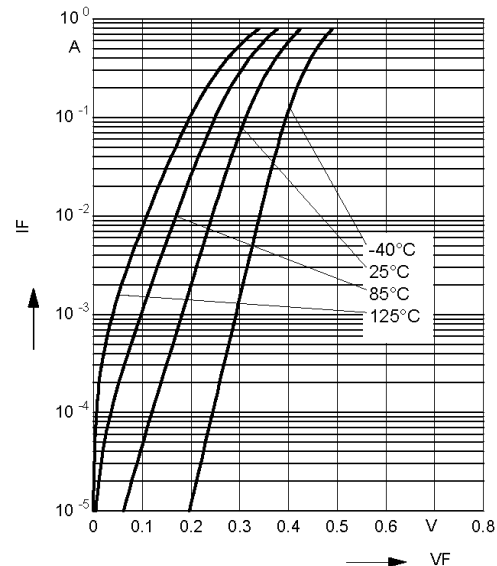
Reverse current $I_R = f(V_R)$

T_A = Parameter



Forward current $I_F = f(V_F)$

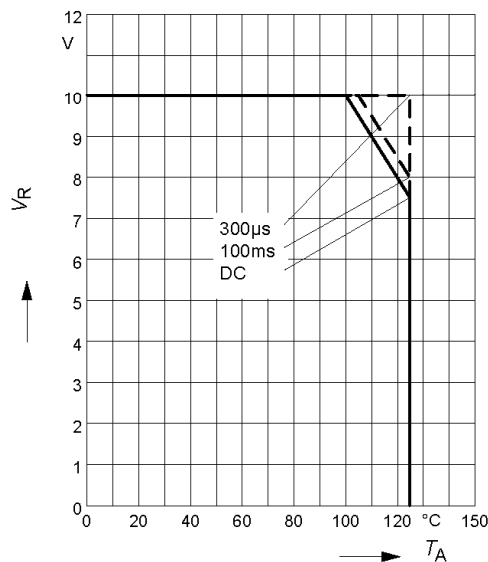
T_A = Parameter



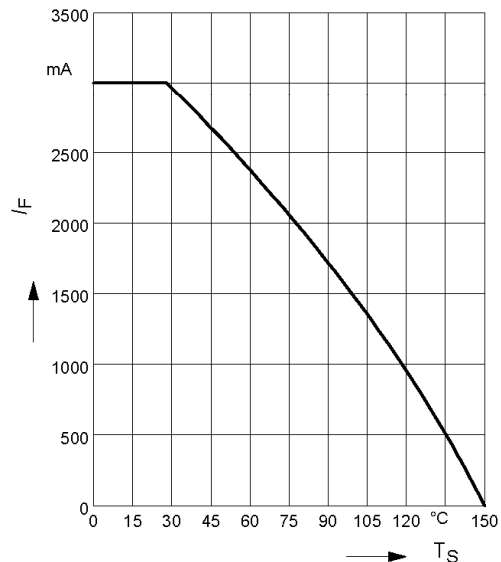
Permissible Reverse voltage $V_R = f(T_A)$

t_p = Parameter; duty cycle < 0.01

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



Forward current $I_F = f(T_S)$

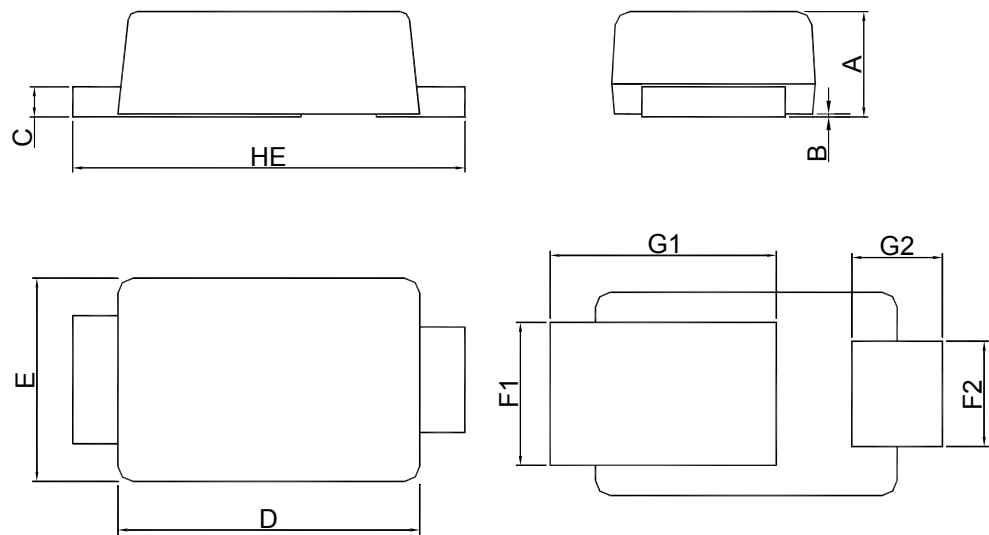


BAT60BHS

PACKAGE OUTLINE

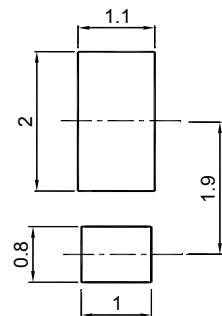
Plastic surface mounted package; 2 leads

SOD-323HE



UNIT	A	B	C	D	E	F1	F2	G1	G2	H _E
mm	0.7	0.02	0.2	2	1.35	0.95	0.7	1.5	0.6	2.6
	0.5	0	0.1	1.8	1.15	0.75	0.5	1.3	0.4	2.4

RECOMMENDED SOLDERING FOOTPRINT



SOD-323HE

TOP DYNAMIC

