

BAT60BW

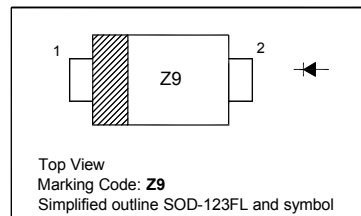
Schottky Barrier Diode

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}	25	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	0.2 0.26 0.32 0.36	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	12	30	pF

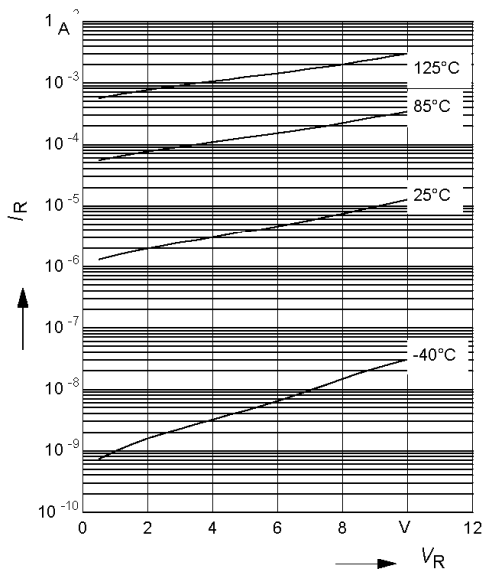
TOP DYNAMIC



Dated: 13/07/2015 Rev: 03

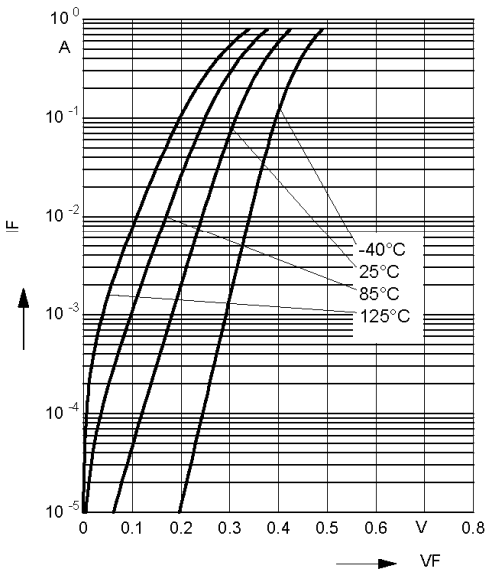
Reverse current $I_R = f(V_R)$

$T_A = \text{Parameter}$

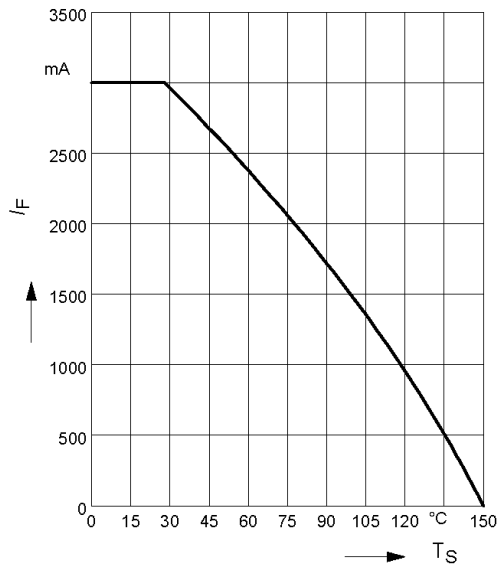


Forward current $I_F = f(V_F)$

$T_A = \text{Parameter}$



Forward current $I_F = f(T_S)$

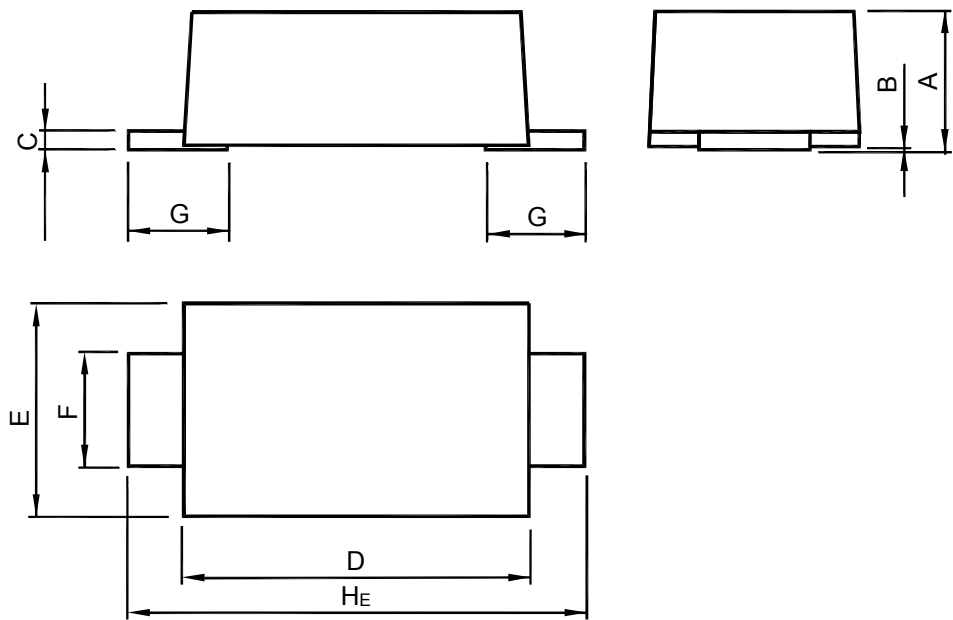


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PACKAGE OUTLINE

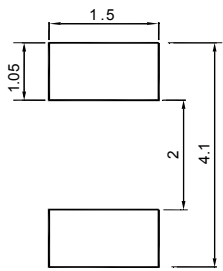
Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	A	B	C	D	E	F	G	H _E
mm	1.08 0.88	0.1 0	0.2 0.1	2.9 2.6	1.9 1.7	1.1 0.8	0.9 0.7	3.9 3.5

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

TOP DYNAMIC