

Description

The BAT54J is schottky barrier diode, SOD-323 plastic package.

Features

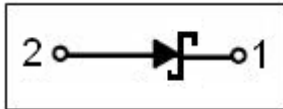
- Halogen-free product

Applications

- Small signal diode.

V_{RM}	I_F	I_{FSM}
30 V	200mA	600mA

Equivalent Circuit & Pinning



PIN1:Cathode

PIN2:Anode

Marking

Marking	H86
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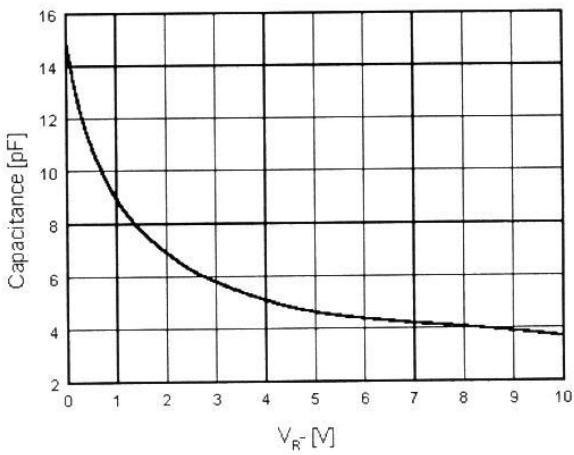
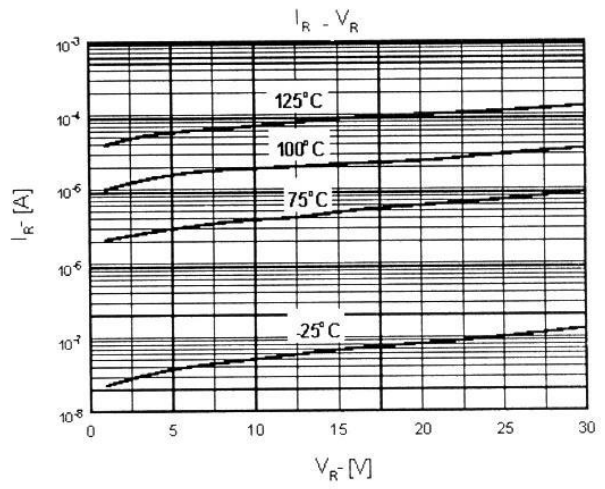
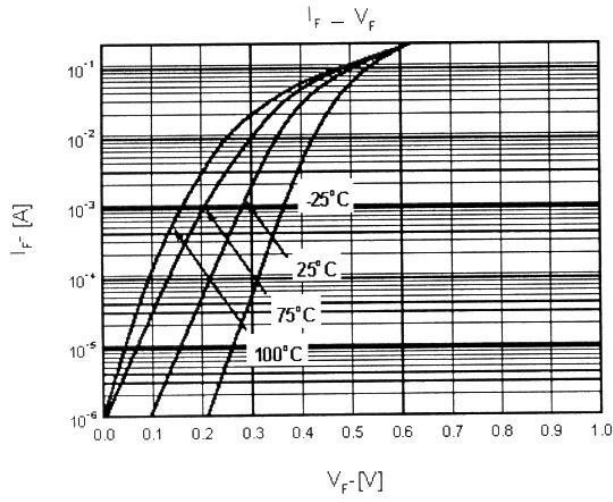
Maximum Rating & Thermal Characteristics(Ta=25 °C)

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	30	V
Continuous forward current	I_F	200	mA
Surge non repetitive forward current	I_{FSM}	600	mA
Power Dissipation	P_D	250	mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	430	°C/W
Junction Temperature Range	T_J	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

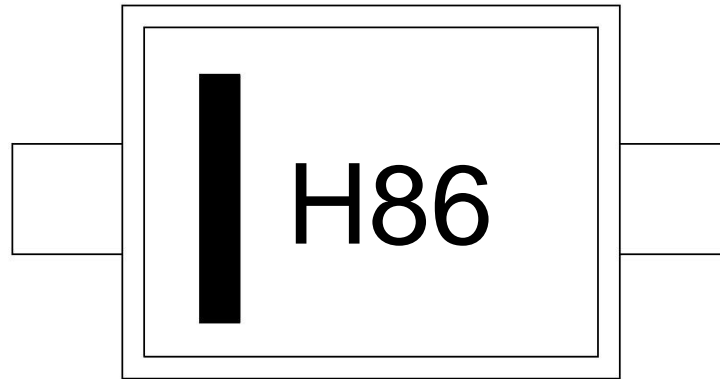
Electrical Characteristics(Ta=25 °C)

Parameter	Symbol	Test Conditions	Rating		Unit
			MIN	MAX	
Reverse Voltage	V_R	$I_R=10\mu A$	30		V
Peak Forward voltage	V_F	$I_F=0.1mA$		240	mV
		$I_F=1.0mA$		320	mV
		$I_F=10mA$		400	mV
		$I_F=30mA$		500	mV
		$I_F=100mA$		0.8	V
Instantaneous Reverse Current	I_R	$V_R=25V$		2.0	μA
Total capacitance	C_T	$V_R=1.0V$ $f=1.0MHz$		10	pF
Reverse recovery time	t_{rr}	$I_{RR}=1.0mA$ $R_L=100\Omega$ $I_F=10mA$		5.0	ns

Electrical Characteristic Curve



Marking instructions



Note:

H: Company Code.

86: Product Type Code.

Package Outline Dimensions

Unit: mm

尺寸 符号	SOD-323	
	min	max
A	0.80	1.15
A1	0.00	0.20
b	0.25	0.40
C	0.08	0.18
D	1.20	1.40
E	1.40	1.80
HE	2.50	2.80
L	0.20	0.45

PIN: 1.CATHODE 2.ANODE

SOD-323