

/ Revised record

A	2022-8-9	all			

/ Descriptions

SOD-323

Schottky Diode in a SOD-323 Plastic Package.

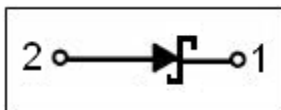
/ Features

Schottky diodes,HF Product.

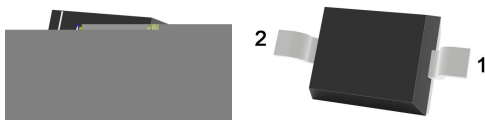
/ Applications

Small signal diode.

/ Equivalent Circuit



/ Pinning



PIN1:Cathode

PIN2:Anode

/ Marking

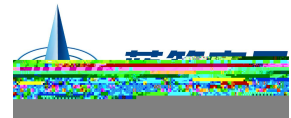
Marking	H86
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/ Absolute Maximum Ratings(Ta=25)

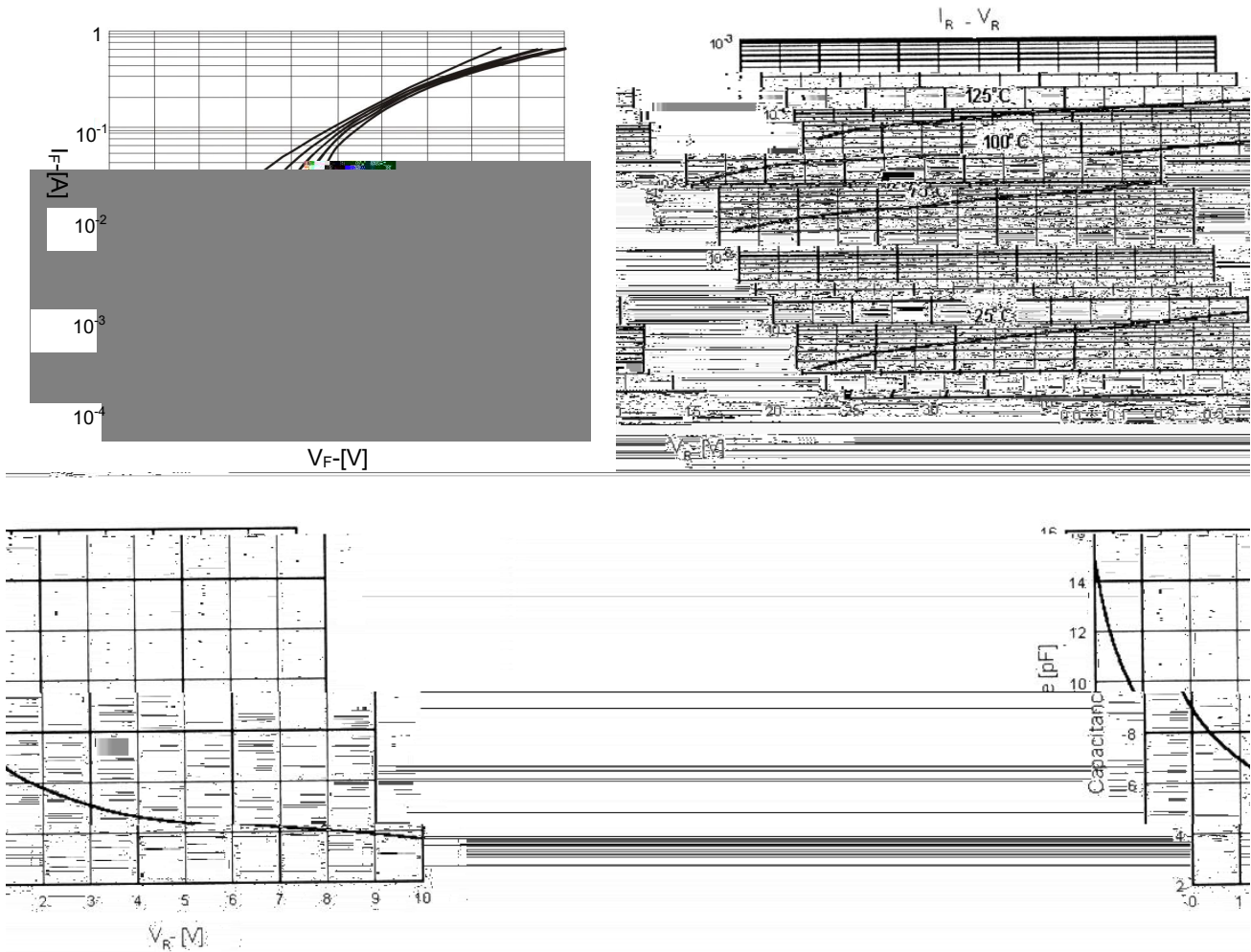
Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	30	V
Continuous forward current	I_F	200	mA
Surge non repetitive forward current	I_{FSM}	600	mA
Power Dissipation	P_D	250	mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	430	$^{\circ}\text{C}/\text{W}$
Junction Temperature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

/ Electrical Characteristics(Ta=25)

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

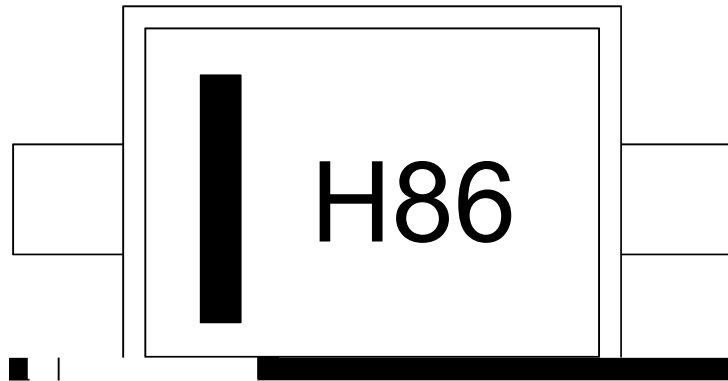


/ Electrical Characteristic Curve



BAT54WS
Rev.A Aug.-2022

/ Marking Instructions



说明：

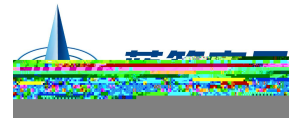
H： 为公司代码

86： 为型号代码

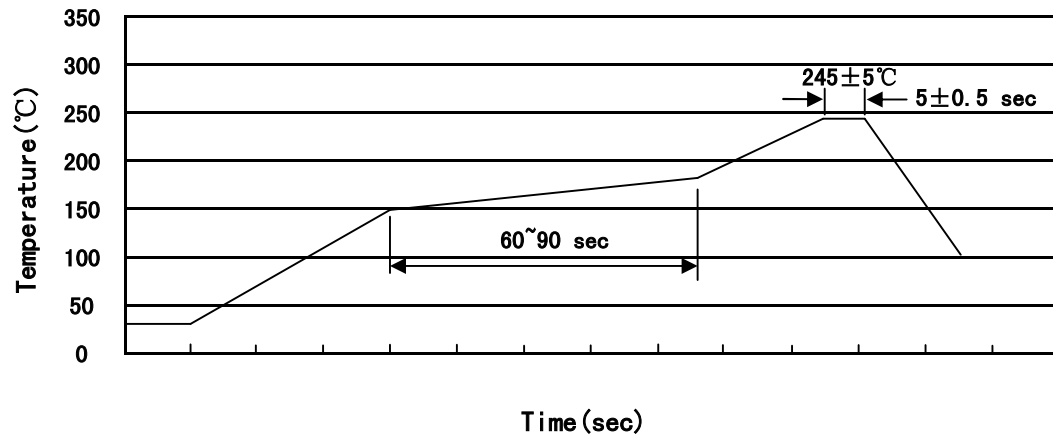
Note:

H: Company Code

86: Product Type



() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | |
|---|-------------|-----------|--|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | 2 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5°C Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension		(unit mm ³)
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱			
						"		

/ Notices