

/ Descriptions

Silicon Diode in a SOT-23 Plastic Package.

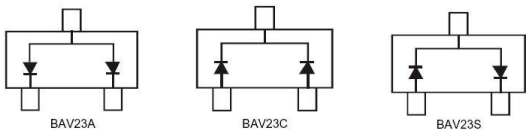
/ Features

Small signal diode,HF Product.

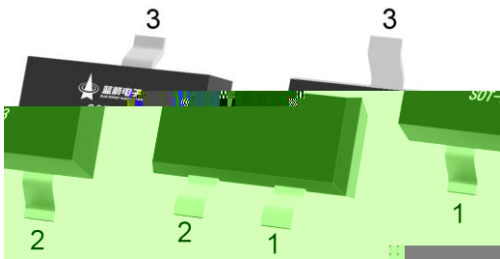
/ Applications

Switching speed, general-purpose switching applications, high conductivity.

/ Equivalent Circuit



/ Pinning



PIN: See Equivalent Circuit.

/ Marking

Model	BAV23A	BAV23C	BAV23S
Marking	HT7	HT6	HT5

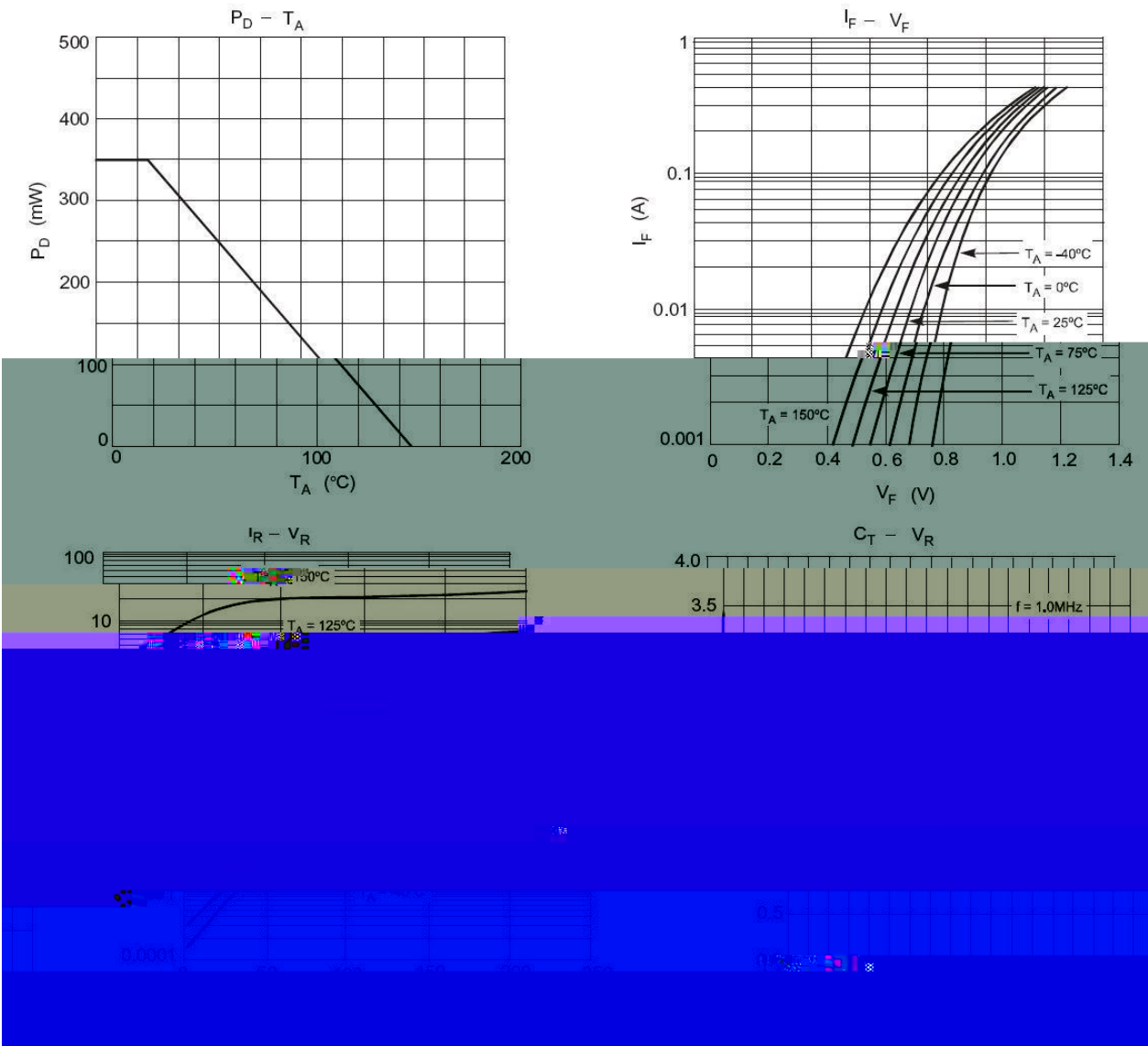
/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	V_{RRM}	250	V
Reverse Voltage	V_R	200	V
Working Peak Reverse Voltage	V_{RWM}		
RMS Reverse Voltage	$V_{R(RMS)}$	141	V
Average Rectified Forward Current	I_{FM}	400	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM(1)}$ (pulse width=1.0 μs)	9.0	A
	$I_{FSM(2)}$ (pulse width=100 μs)	3.0	A
	$I_{FSM(3)}$ (pulse width=10ms)	1.7	A
Repetitive Peak Forward Surge Current	I_{FRM}	625	mA
Power Dissipation	P_D	350	mW
Thermal Resistance, Junction to Ambient	R	357	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature Range	T_j, T_{stg}	-65 150	

/ Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_R	I_R □	250			V
Forward Voltage	V_F	$I_F=100\text{mA}$			1.0	V
		$I_F=200\text{mA}$			1.25	V
Instantaneous Reverse Current	I_R	$T_J=25$			100	nA
		$T_J=150$			100	
Total Capacitance	C_T	$V_R=0$ $f=1.0\text{MHz}$			5.0	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=30\text{mA}$ $I_{RR}=0.1 \times I_R$ $R_L=100$			50	ns

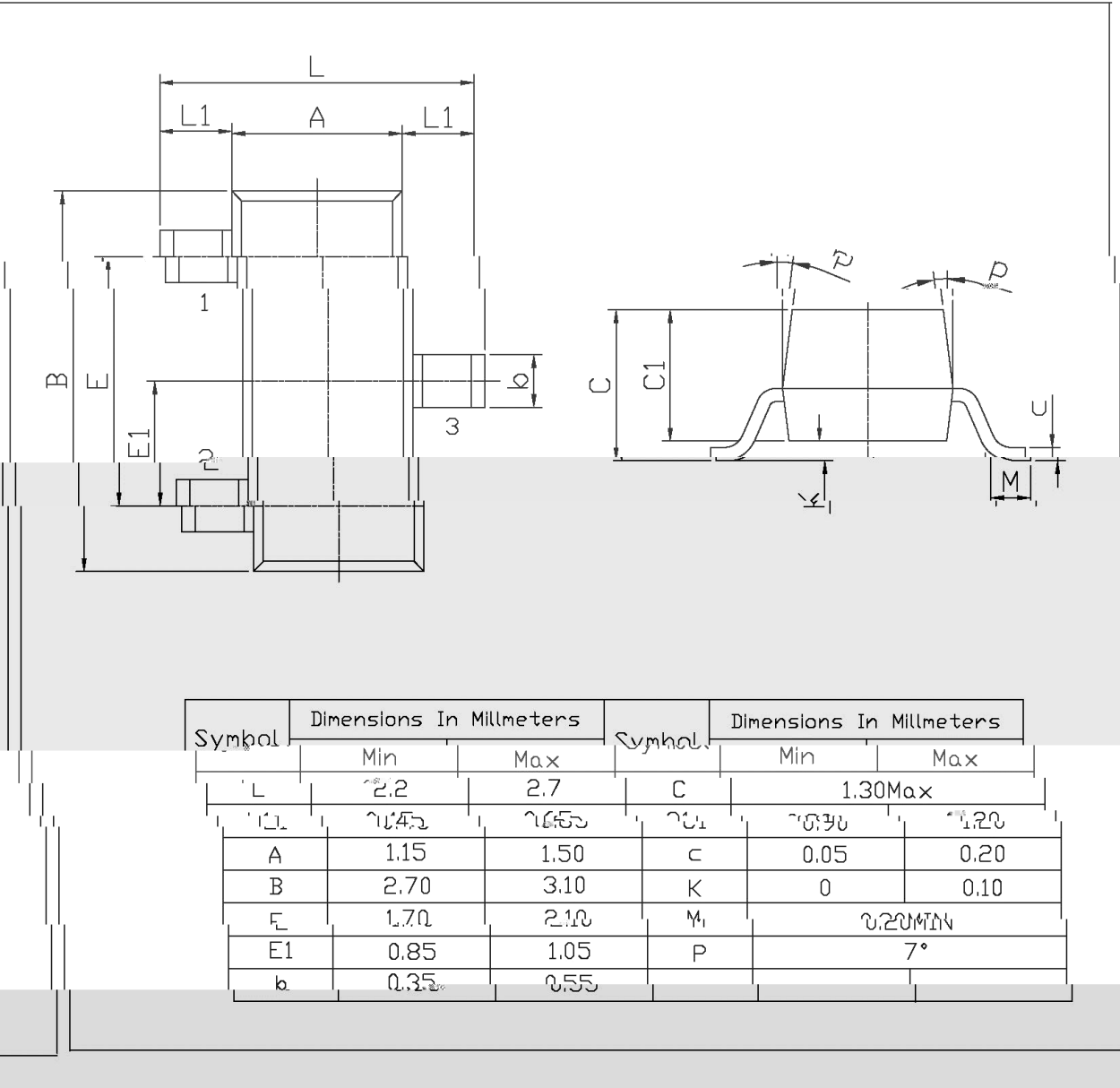
/ Electrical Characteristic Curve



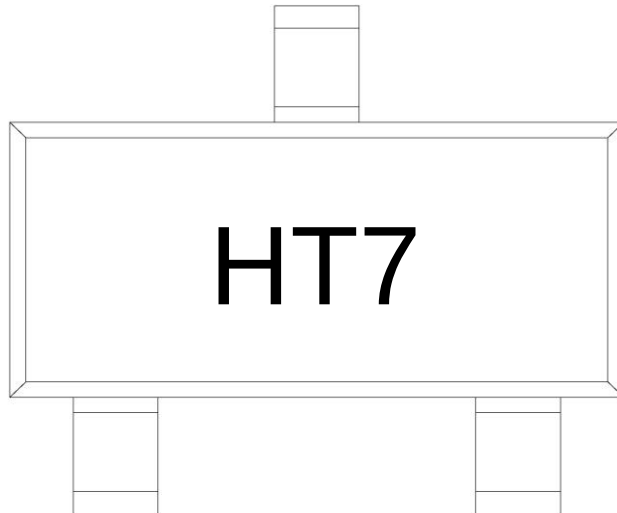
/ Package Dimensions

SOT-23

单位: mm



/ Marking Instructions



Note:

H: Company Code

T7: Product Type Code

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Note:

- 2

245 5

5 0.5sec;

2.Peak Temp.:245 5 , Duration:5 0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units Units	Units 包装数量	Dimension 包装尺寸 (unit: mm³)
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