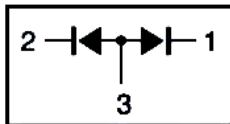


Rev.A May.-2016

Silicon Diode in a SOT-323 Plastic Package.

Small package, High switching speed, Repetitive peak reverse voltage, Repetitive peak forward current up to 450mA.

High-speed switching in thick and thin-film circuits.



PIN: See Equivalent Circuit.

Marking	HA1
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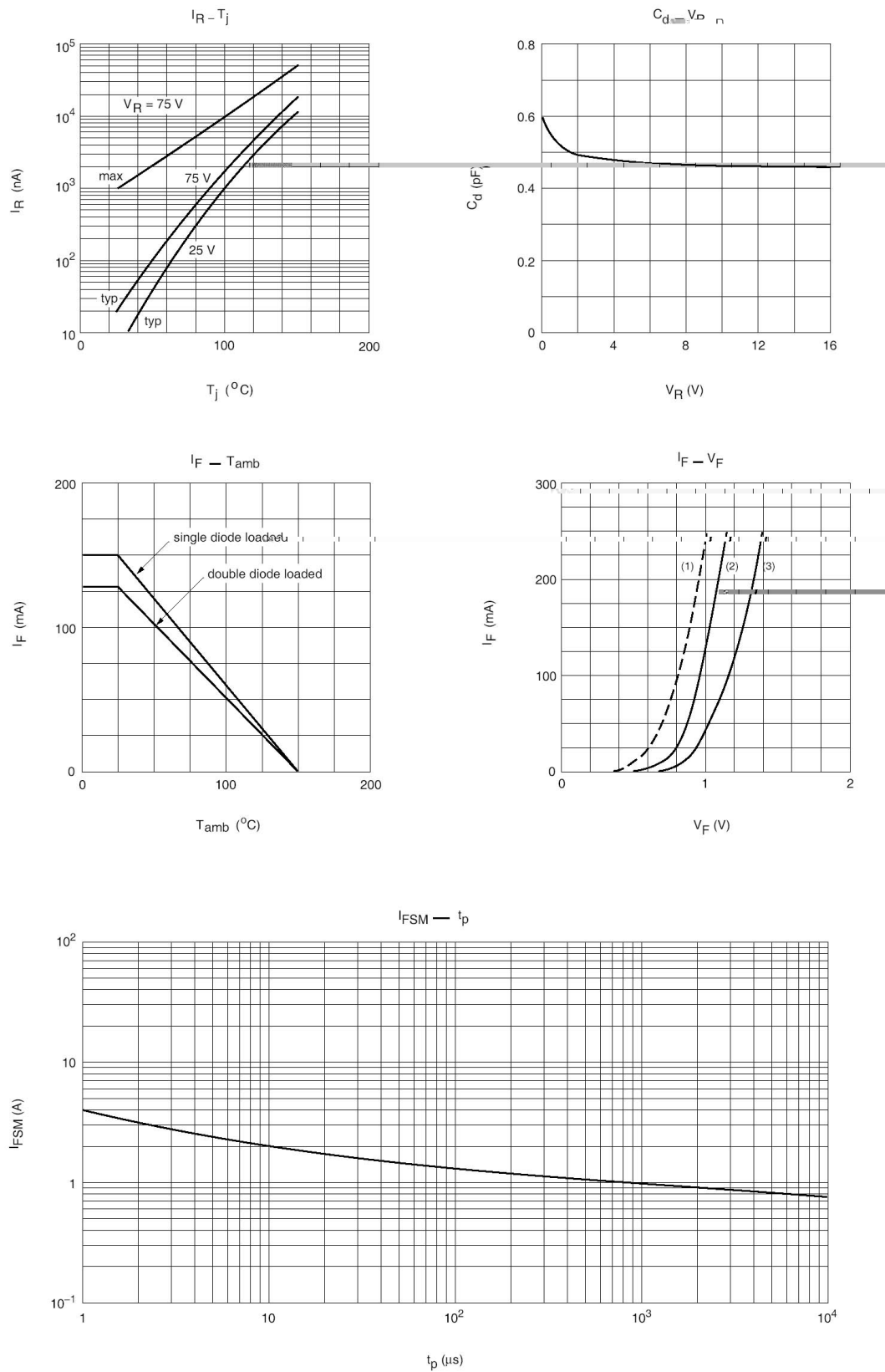
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Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	V_{RRM}	85	V
Continuous reverse voltage	V_R	75	V
Continuous forward current	$I_{F(1)}$	215	mA
	$I_{F(2)}$	125	mA
Repetitive peak forward current	I_{FRM}	450	mA
Non-repetitive Peak Forward Current	$I_{FSM(1)(t=1\text{ S})}$	0.5	A
	$I_{FSM(2)(t=1\text{ mS})}$	1.0	A
	$I_{FSM(3)(t=1\text{ S})}$	4.0	A
Total power dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

-

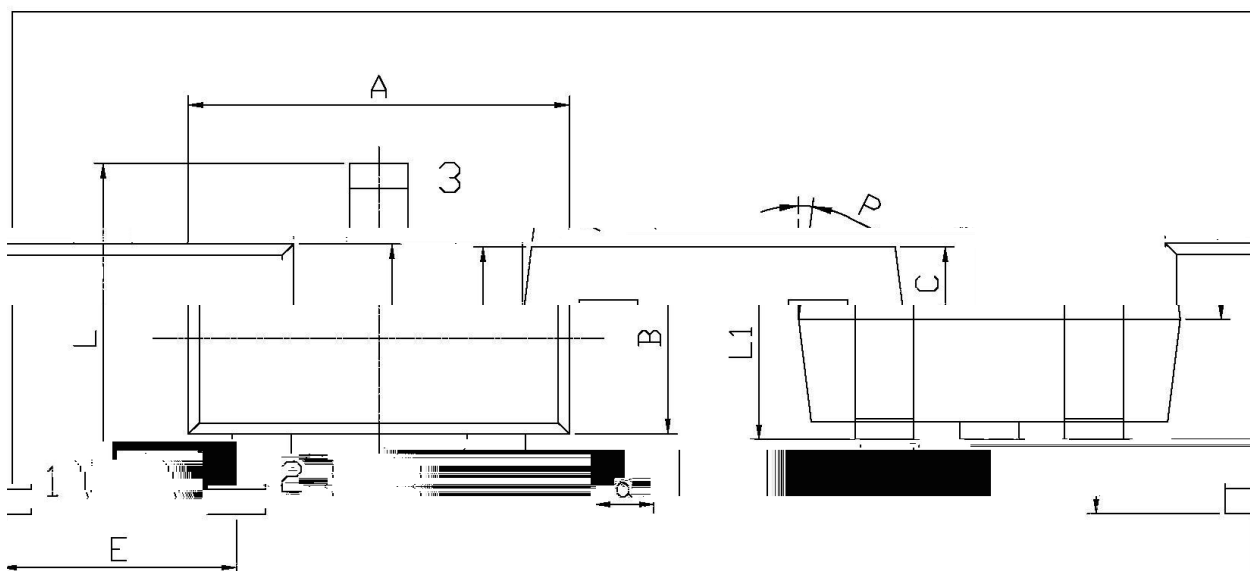
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=1\text{mA}$			715	mV
		$I_F=10\text{mA}$			855	mV
		$I_F=50\text{mA}$			1.0	V
		$I_F=150\text{mA}$			1.25	V
Instantaneous Reverse Current Total Capacitance	I_R	$V_R=25\text{V}$			30	nA
		$V_R=75\text{V}$			1.0	A
		$V_R=25\text{V}$ $T_J=150$			30	A
		$V_R=75\text{V}$ $T_J=150$			50	A
Diode capacitance	C_d	$V_R=0$ $f=1\text{MHz}$			2.0	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$ $I_R=1\text{mA}$ $R_L=100$			4.0	ns
Forward recovery voltage	V_{fr}	$I_F=10\text{mA}$ $t_r=20\text{ns}$			1.75	V

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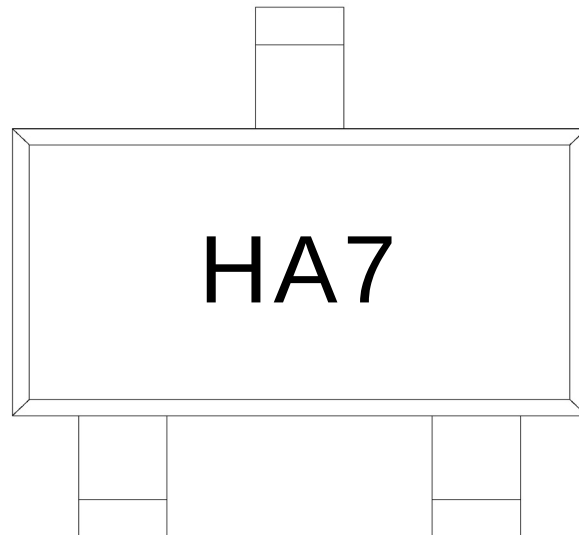
SOT-323

单位: mm



Symbol	Min	Max
C	0.30	0.50
L1	0.85	1.15
a	0.20	0.40

Symbol	Min	Max
A	1.95	2.35
B	2.00	2.2
E	1.20	1.40

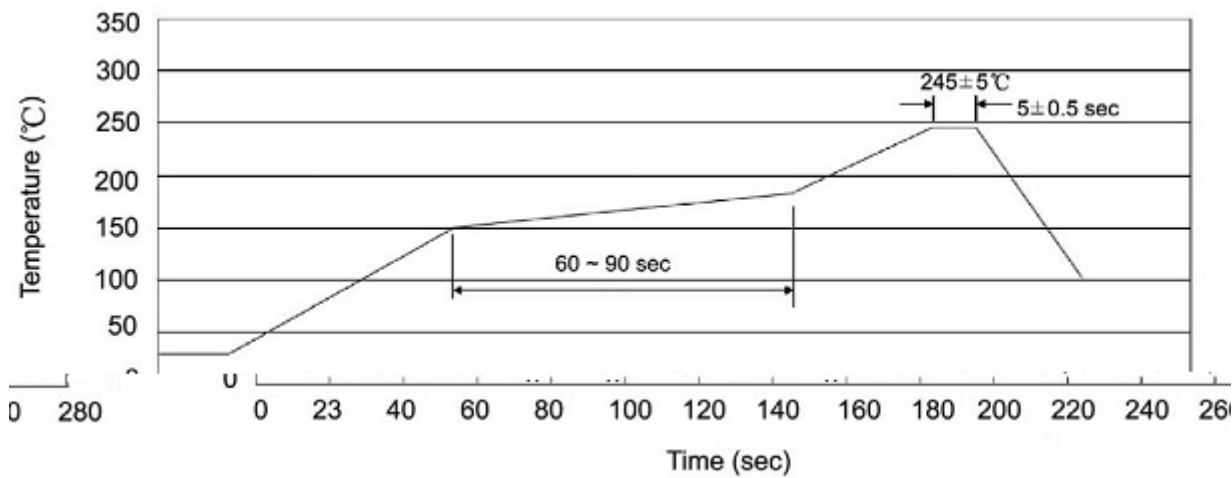


Note:

H: Company Code.

A7: Product Type.

Wh p shudwxuh Suriloh i ru LU Uhior z Vroghulqj +Se0luhh,



Note:

- 1

25 150

60 90sec;

1.Preheating:25~150 , Time:60~90sec.
- 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.

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

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-323	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205