

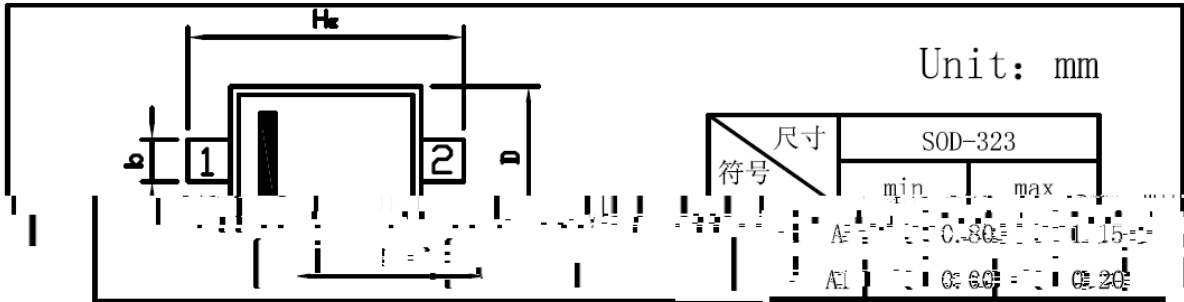


Parameter	Symbol	Rating	Unit
Peak Reverse Voltage	$V_{RM}$	30	V
Forward Continuous Current	$I_F$	0.5	A
Non-Repetitive Peak Forward Surge Current @t = 8.3ms	$I_{FSM}$	15	A
Power dissipation	$P_D$	200	mW
Thermal Resistance, Junction to Ambient Air (NOTE 1)	$R_{JA}$	500	K/W
Junction Temperature	$T_j$	125	°C
Storage Temperature	$T_{stg}$	-55 ~ +150	°C

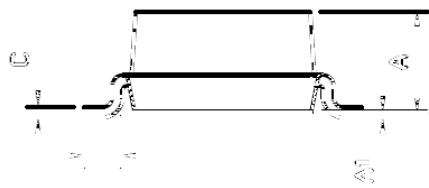
Notes: 1. Part mounted on FR-4 board with recommended pad layout.

Parameter	Symbol	Test Conditions	Rating	Unit
DC Reverse Voltage	$V_R$	$I_R=100\mu A$	20	V
Maximum Instantaneous Forward Voltage	$V_F$	$I_F=1.0mA$	0.37	V
		$I_F=500mA$	0.47	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$V_R=20V$	100	$\mu A$
Typical Junction Capacitance	$C_T$	$V_R=4V$ $f=1MHz$	50(Typ)	pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=1mA$ $I_{rr}=1mA$ $R_L=100$	30	nS



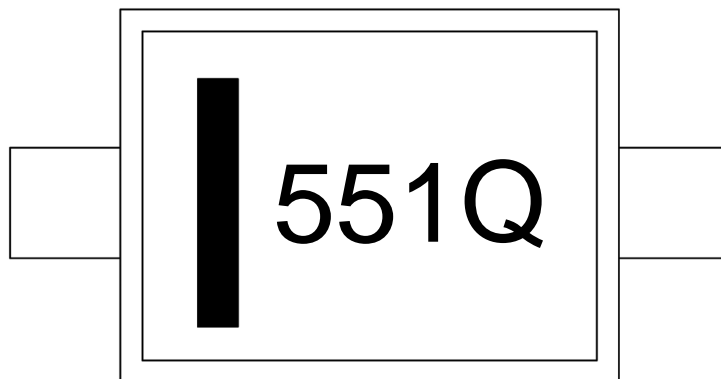


尺寸 符号	SOD-323	
	min	max
A	0.80	1.15
A1	0.60	0.20
B	0.25	0.40
C	0.08	0.18
D	1.20	1.40
E	1.40	1.80
H <sub>k</sub>	2.50	2.80
L	0.20	0.45



PIN: 1CA 2AN

SOD-323



551

Q

Note:

551      Product Type Code

Q:        Automobile halogen-free product Code

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


**Note:**

- |   |           |              |                                         |
|---|-----------|--------------|-----------------------------------------|
| 1 | 150 ~ 200 | 60 ~ 120sec; | 1.Preheating:150~200 , Time:60~120sec.  |
| 2 | 255±5     | 5±0.5sec;    | 2.Peak Temp.:255±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
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/ REEL

Package Type	Units					Dimension (unit mm <sup>3</sup> )		
						Reel	Inner Box	Outer Box
SOD-323	3,000	10	30,000	6	180,000	7" x8	180x120x180	390x385x205