

/ Descriptions

SOD-323
Silicon Diode in a SOD-323 Plastic Package.

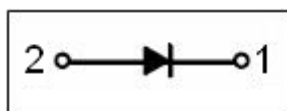
/ Features

Fast switching diodes. HF Product.

/ Applications

Switching diodes.

/ Equivalent Circuit



/ Pinning



PIN1:Cathode PIN2:Anode

/ h_{FE} Classifications & Marking

Marking	S4H
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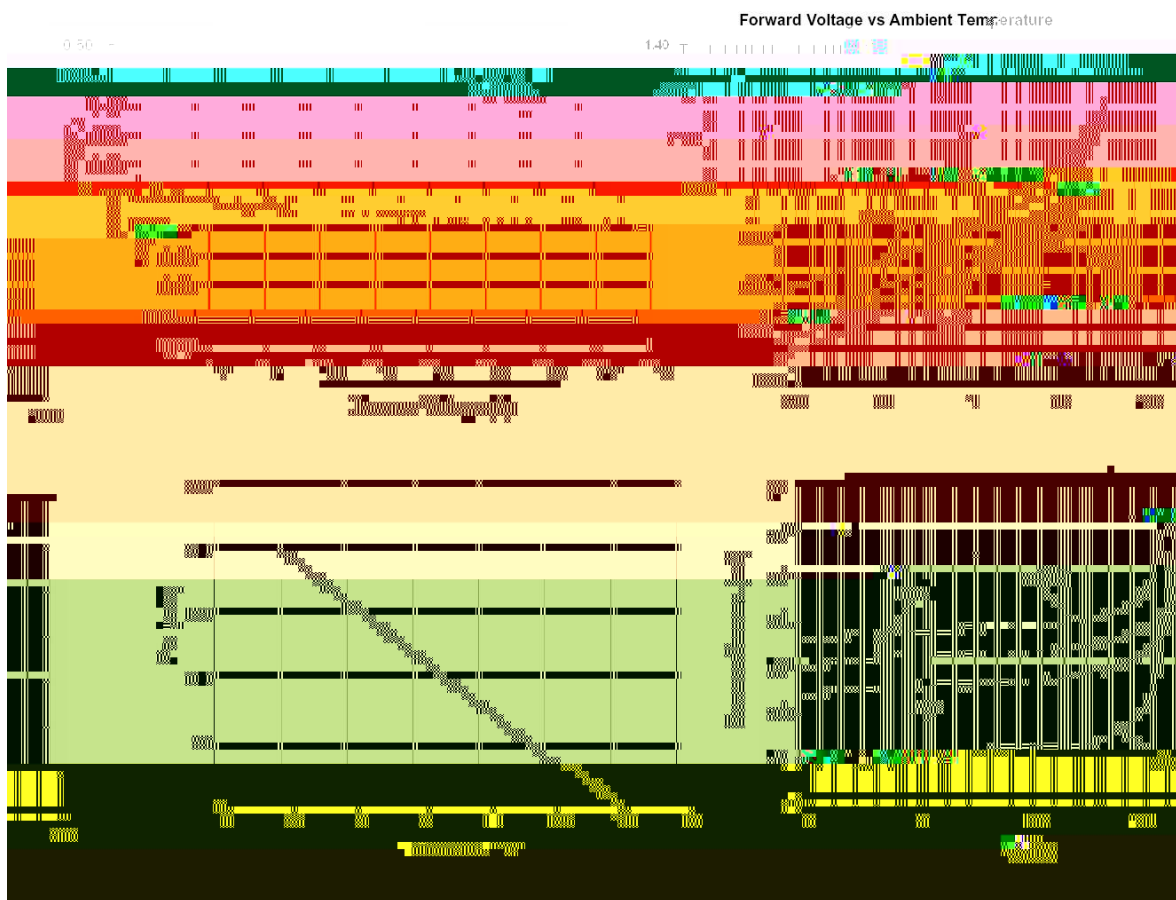
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	80	V
Peak Reverse Voltage	V_{RM}	90	V
Average Rectified Output Current	I_O	150	mA
Forward Continuous Current	I_{FM}	250	mA
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM} t=1.0 s	2.0	A
Power Dissipation	P_D	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-65 150	

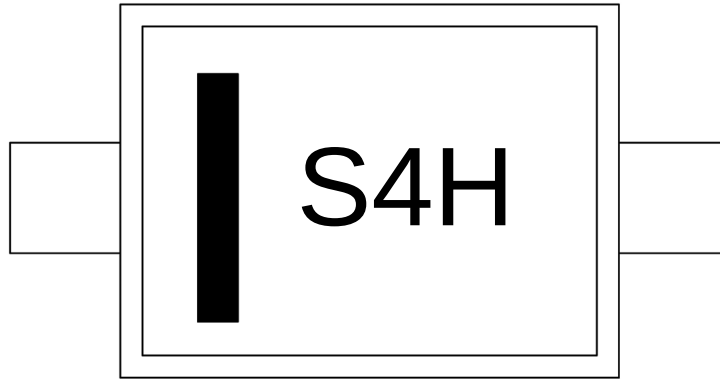
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=100mA$			1.2	V
Reverse Leakage Current	I_R	$V_R=80V$			100	nA
Breakdown Voltage	V_{BR}	$I_R=100 A$	80			
Reverse Recovery Time	t_{rr}	$I_F=10mA$ $V_R=6.0V$ $R_L=100$			4.0	ns
Total Capacitance	C_T	$V_R=0.5V$ $f=1.0MHz$			4.0	pF

/ Electrical Characteristic Curve



/ Marking Instructions

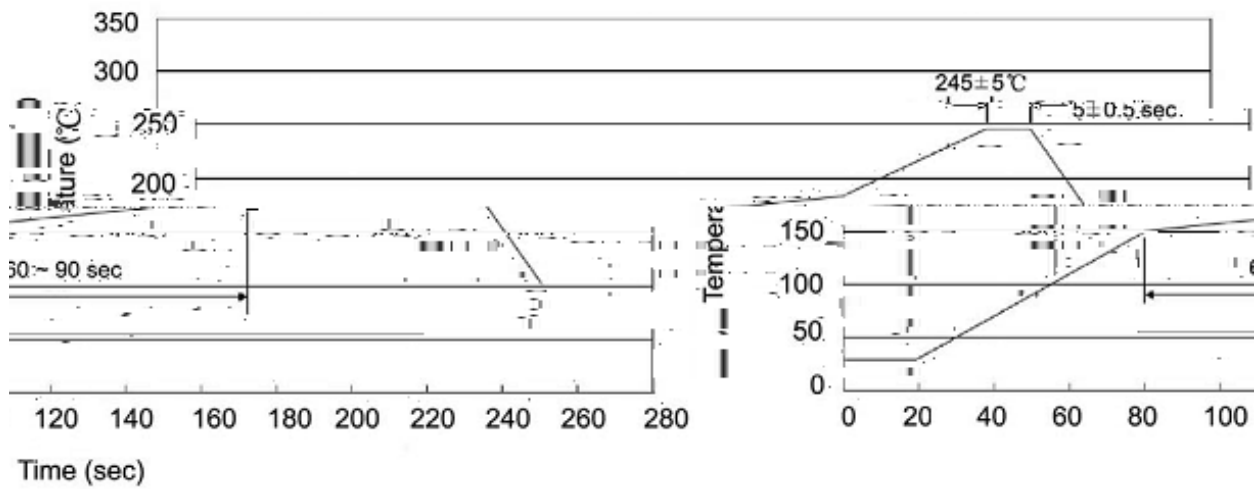


Note:

S4: Product Type Code

H Company Code

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



Note:

- 1

150 180

60 90sec;
- 2

245 5

5 0.5sec;
- 3

2 10

/sec.
- 1.Preheating:105~180

, Time:60~90sec.
- 2.Peak Temp.:245 5

, Duration:5 0.5sec.
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	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-323	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices