

/ Descriptions

SOD-323

Schottky Diode in a SOD-323 Plastic Package.

/ Features

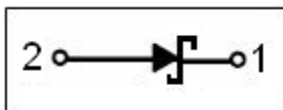
AEC-Q101

Schottky diodes, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

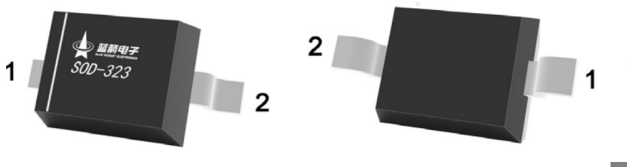
/ Applications

Small signal diode, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1:Cathode

PIN2:Anode

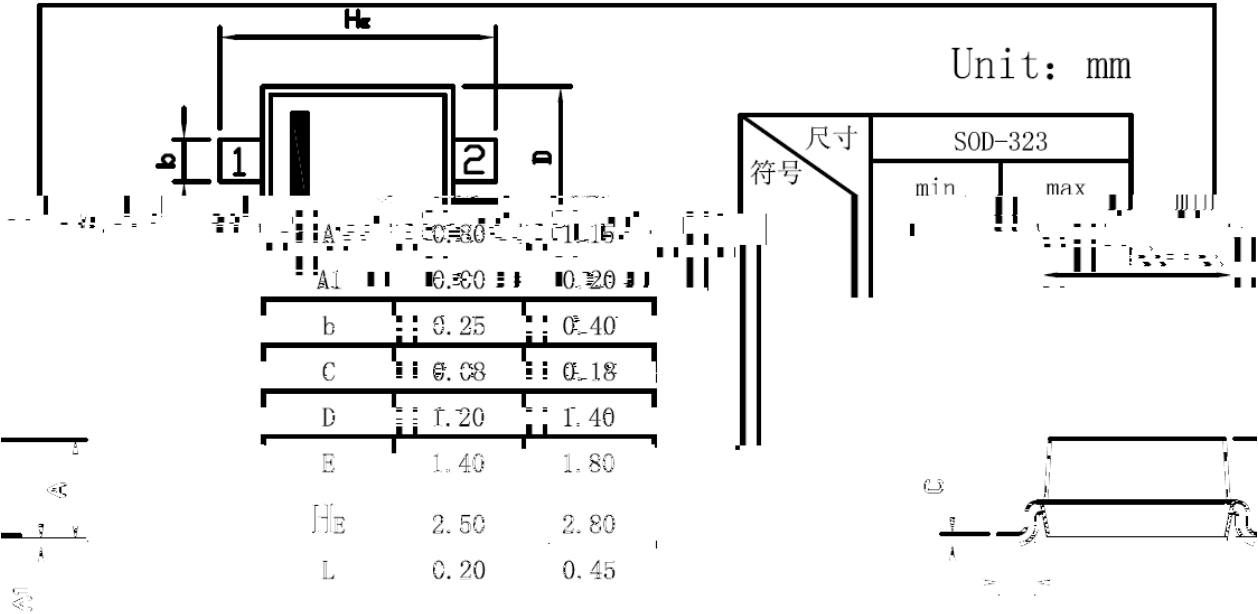
/ Marking

Marking	Q86
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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	/W
Junction Temperature Range	T_J	125	
Storage Temperature Range	T_{stg}	-55~150	

Parameter	Symbol	Test Conditions	Rating		Unit
			MIN	MAX	
Reverse Voltage	V_R	$I_R=10\mu A$	30		V
		$I_F=0.1mA$		240	mV
Peak Forward voltage	V_F	$I_F=1.0mA$		320	mV
		$I_F=10mA$		400	mV
		$I_F=30mA$		500	mV
		$I_F=100mA$		0.8	V

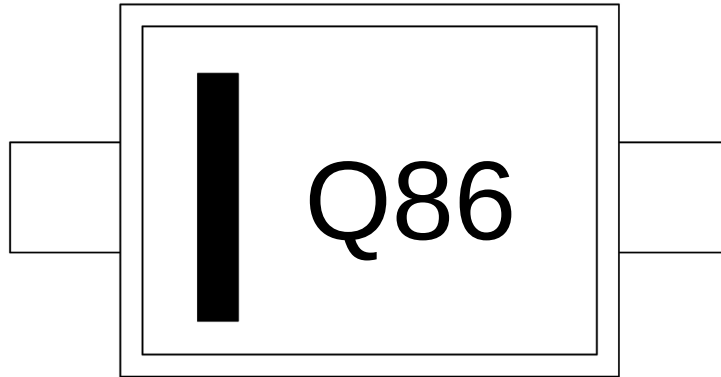
/ Package Dimensions



2ANJ PIN: 1CA

SOD-323

/ Marking Instructions



Q

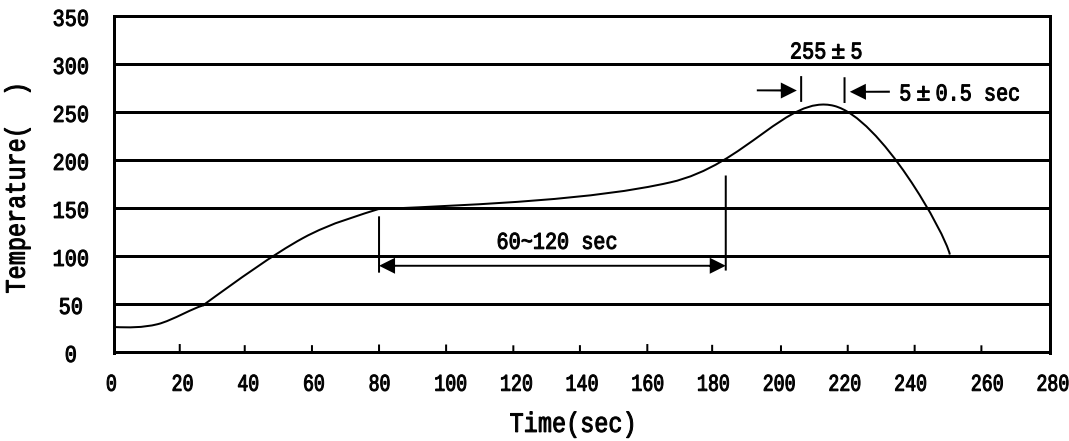
86

Note:

Q: Automobile halogen-free product Code

86: Product Type 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.

/ 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" x8	180×120×180	390×385×205

/ Notices