

/ Revised record

H	2018-4				
A	2022-7-13	all	BR/Q AEC-Q101 , H Q $245\pm 5^{\circ}\text{C}$ $5\pm 0.5\text{sec}$ $255\pm 5^{\circ}\text{C}$ 0.5sec $5\pm$		

/ Descriptions

SOD-323

Schottky Diode in a SOD-323 Plastic Package.

/ Features

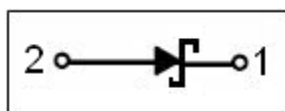
AEC-Q101

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

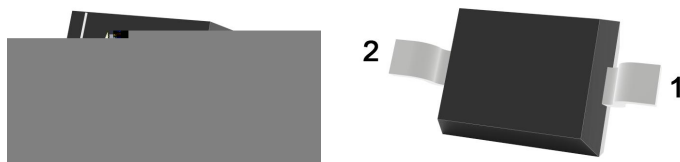
/ Applications

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

/ Equivalent Circuit



/ Pinning



PIN1:Cathode

PIN2:Anode

/ Marking

Marking	Q86
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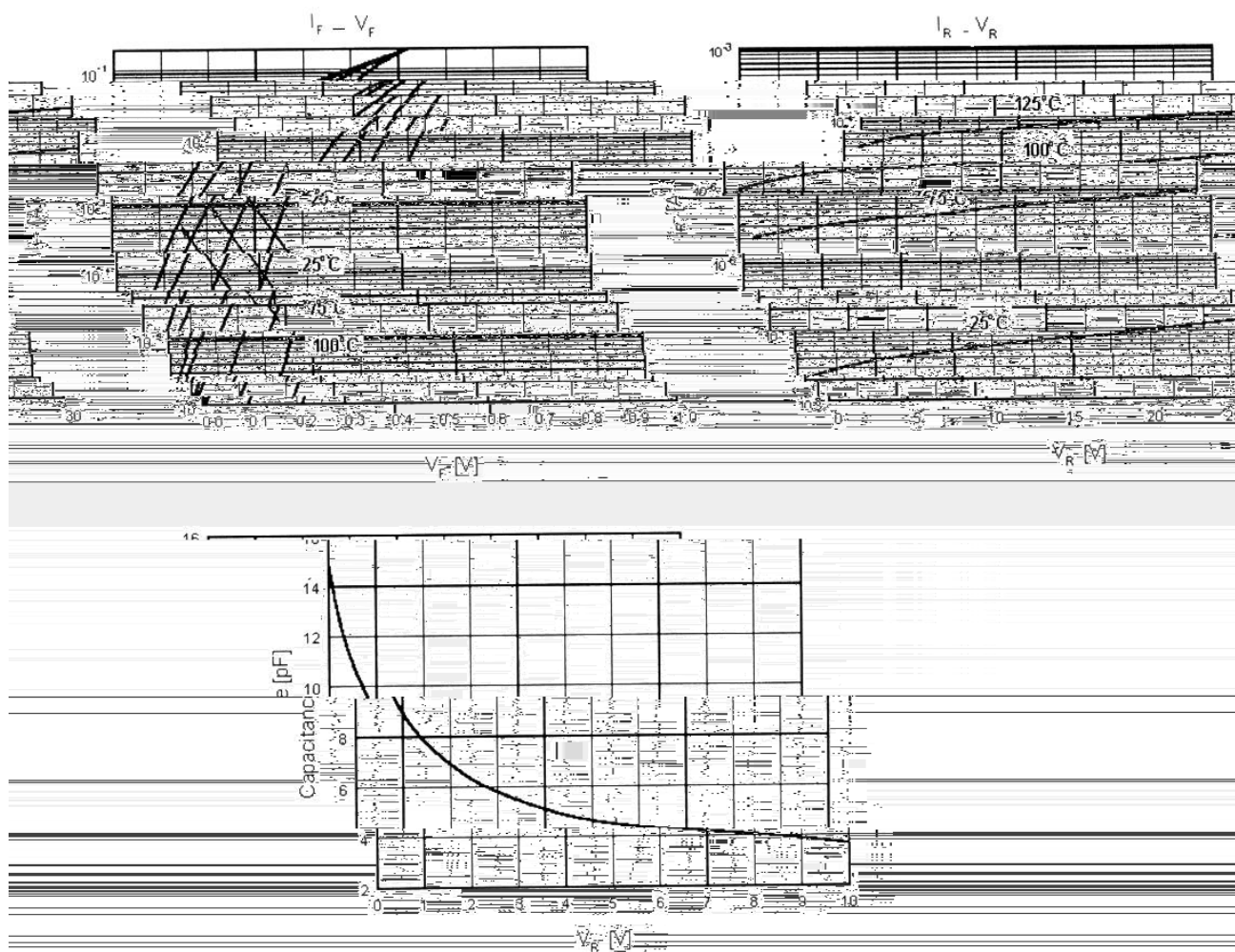
/ Absolute Maximum Ratings(Ta=25)

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	$^{\circ}C/W$
Junction Temperature Range	T_J	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}C$

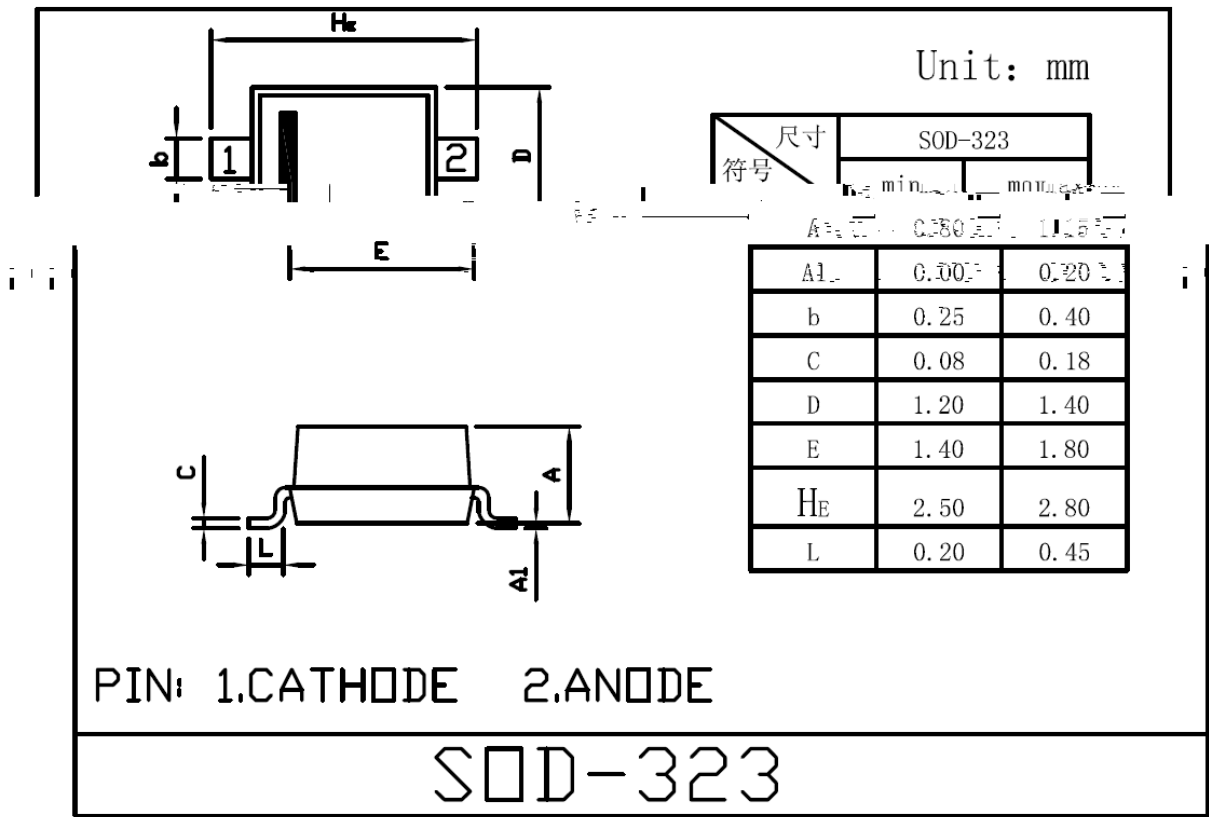
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating		Unit
			MIN	MAX	
Reverse Voltage	V_R	$I_R=10\mu A$	30		V
Peak Forward voltage	V_F	$I_F=0.1mA$		240	mV
		$I_F=1.0mA$		320	mV
		$I_F=10mA$		400	mV
		$I_F=30mA$		500	mV
		$I_F=100mA$		0.8	V
Instantaneous Reverse Current	I_R	$V_R=25V$		2.0	μA
Total capacitance	C_T	$V_R=1.0V$ $f=1.0MHz$		10	pF
Reverse recovery time	t_{rr}	$I_{RR}=1.0mA$ $R_L=100\Omega$ $I_F=10mA$		5.0	ns

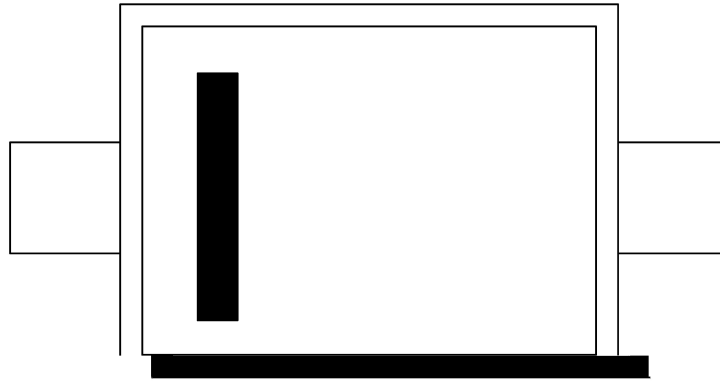
/ **Electrical Characteristic Curve**



/ Package Dimensions



/ Marking Instructions



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Note:

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|---|-------------|-------------------------------|--|
| 1 | 150 200 | 60 120sec; | 1.Preheating:150~200°C, Time:60~120sec. |
| 2 | 255±5 | 5±0.5sec; | 2.Peak Temp.:255±5°C, Duration:5±0.5sec. |
| 3 | 2 10°C/sec. | 3. Cooling Speed: 2~10°C/sec. | |

/ **Resistance to Soldering Heat Test Conditions**

260±5°C	10±1 sec.	Temp.:260±5°C	Time:10±1 sec
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/ **Packaging SPEC.**

/ 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