

/ Descriptions

SOD-123
Schottky Diode in a SOD-123 Plastic Package.

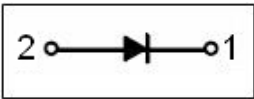
/ Features

AEC-Q101
Low positive pressure drop, can ignore the reverse recovery time, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

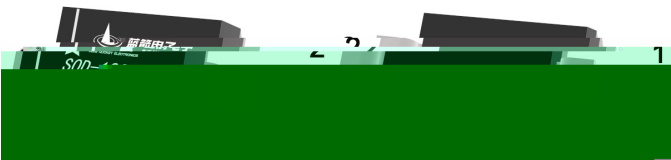
/ Applications

General purpose, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1:Cathode PIN2:Anode

/ Marking

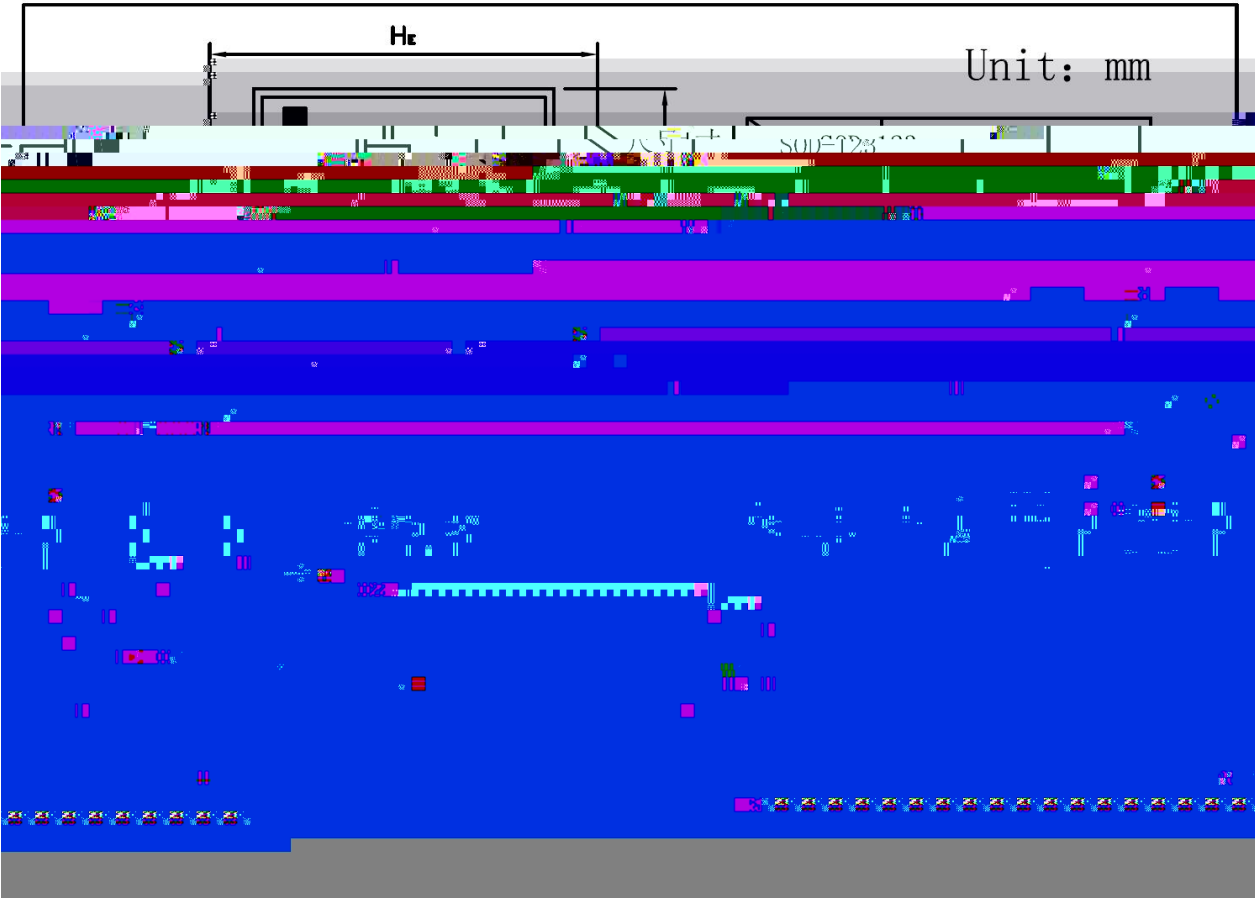
Model	BRSD103AWQ	BRSD103BWQ	BRSD103CWQ
Marking	QS4	QS5	QS6

Parameter	Symbol	Rating			Unit
		BRSD103AWQ	BRSD103BWQ	BRSD103CWQ	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_R V_{RRM} V_{RWM}	40	30	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Non-Repetitive Peak Forward Current	I_{FM}	350			mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	1.5			A
Power Dissipation	P_D	400			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	300			/W
Junction and Storage Temperature Range	T_j, T_{STG}	-65 125			

Parameter		Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Breakdown Voltage		V _{(BR)R}	I _R =100μA	VR			V
Peak Forward Voltage		V _{FM}	I _F =20mA			0.37	
			I _F =200mA			0.6	
Peak Reverse Current	BRSD103AWQ	I _{RM}	V _R =30V				
	BRSD103BWQ		V _R =20V			5	μA

BRSD103AWQ/BWQ/CWQ

/ Package Dimensions





/ Marking Instructions



Q

S5

Note:

Q: Automobile halogen-free product Code

S5: 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.