

/ Descriptions

SOD-123

Schottky Diode in a SOD-123 Plastic Package.

/ Features

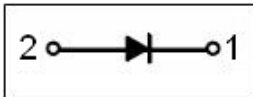
AEC-Q101

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

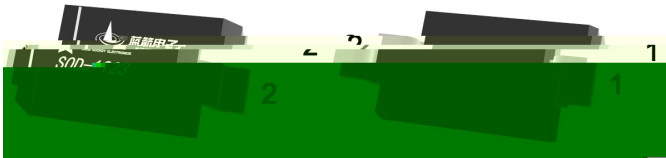
/ Applications

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

BRSD103AWQ/BWQ/CWQ

Rev.A Nov.-2024



DATA SHEET

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_{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	$V_{(BR)R}$	$I_R=100\mu A$	V_R			V
Peak Forward Voltage	V_{FM}	$I_F=20mA$			0.37	
		$I_F=200mA$			0.6	
Peak Reverse Current	BRSD103AWQ	$V_R=30V$				μA
	BRSD103BWQ	I_{RM} $V_R=20V$			5	

BRSD103AWQ/BWQ/CWQ

/ 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.