

5 é / Descriptions

SOD-323 .> // x RK Ô Â 8 â 'ož  
Schottky Diode in a SOD-323 Plastic Package.

α<sup>a</sup> / Features

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

Đ ÷ / Applications

RK Ô Â 8 â ' k á V ñ • } Lož  
Schottky diode, Meet the stringent requirements of automotive applications.

Ã W ] Ô • / Equivalent Circuit

• Ů - æ / Pinning

PIN1:Cathode PIN2:Anode

, M V / Marking

Model	BRSD103AWSQ	BRSD103BWSQ	BRSD103CWSQ
Marking	QS4	QS5	QS6

Absolute Maximum Ratings(Ta=25 ; )

@ f Parameter	... Z Symbol	f › Rating			% y Unit
		BRSD103AWSQ	BRSD103BWSQ	BRSD103CWSQ	
Peak Repetitive Reverse Voltage , Working Peak Reverse Voltage DC Reverse Voltage	V <sub>RRM</sub> V <sub>RWME</sub> V <sub>R</sub>	40	30	20	V
RMS Reverse Voltage	V <sub>RRMSA</sub>	28	21	14	V
Non-Repetitive Peak Forward Current	I <sub>FM</sub>	350			mA
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	1.5			A
Power Dissipation	P <sub>D</sub>	200			mW
Typical Thermal Resistance Junction to Ambient	R <sub>JA</sub>	625			/W
Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	-65 125			

Electrical Characteristics(Ta=25 ; )

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	f › Rating			% y Unit
			Â 4 › Min	Á ° › Typ	Â Ý › Max	
Reverse Breakdown Voltage	V <sub>(BR)</sub>	I <sub>R</sub> =10uA	V <sub>R</sub>			V
Forward Voltage Drop	V <sub>FM</sub>	I <sub>F</sub> =20mA			0.37	V
		I <sub>F</sub> =200mA			0.6	
Instantaneous Reverse Current	BRSD103AWSQ	I <sub>RM</sub> V <sub>R</sub> =30V			5.0	uA
	BRSD103BWSQ		V <sub>R</sub> =20V			
	BRSD103CWSQ		V <sub>R</sub> =10V			
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =200mA I <sub>rr</sub> =0.1xI <sub>R</sub> R <sub>L</sub> =100		10		ns
Total Capacitance	C <sub>T</sub>	V <sub>R</sub> =0V f=1.0MHZ		50		pF

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ = ) ϕ / Package Dimensions

, M y f / Marking Instructions

# QS4

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9 y ° Z W A

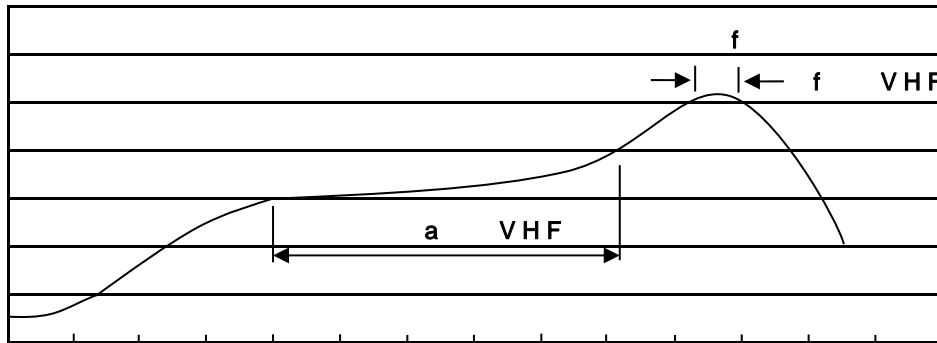
Note:

Q: Automobile halogen-free product Code

S4: Product Type

šWD t... • Žϕ (x/ ) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

7HPSHUDWXUH



7LPH VHF

<sup>a</sup> ϕ y

Note:

1. 150~200 - k ž • 60~120sec;

1. Preheating: 150~200 - , Time: 60~120sec.

2. 255 r5 - k ž • 4 Ò 5 r0.5sec;

2. Peak Temp.: 255 r5 - , Duration: 5 r0.5sec.

3. 2~10 - /sec.

3. Cooling Speed: 2~10 - /sec.

ÁD /Cã p ~ » ] / Resistance to Soldering Heat Test Conditions

“† y 260 r5 -

ž • y 10 r1 sec.

Temp.: 260 r5 -

Time: 10 r1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û !H					Dimension ;>û p . (unit /Emm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /!ç	Units/Outer Box /!ç	Reel	Inner Box	Outer Boxç
SOD-323	3,000	10	30,000	6	180,000	7 s x8	180x120x180	390x385x205

„Đ y f / Notices