

5 é / Descriptions

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

▣^a / 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℃ ;)

Parameter	Symbol	Rating			Unit
		BRSD103AWSQ	BRSD103BWSQ	BRSD103CWSQ	
Peak Repetitive Reverse Voltage , Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_R	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	200			mW
Typical Thermal Resistance Junction to Ambient	R_{JA}	625			/W
Junction and Storage Temperature Range	T_J, T_{stg}	-65 ~ 125			

Electrical Characteristics(Ta=25℃ ;)

Parameter	Symbol	Test Conditions	Rating			Unit
			Min	Typ	Max	
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu A$	V_R			V
Forward Voltage Drop	V_{FM}	$I_F=20mA$			0.37	V
		$I_F=200mA$			0.6	
Instantaneous Reverse Current	BRSD103AWSQ	I_{RM}	$V_R=30V$		5.0	μA
	BRSD103BWSQ		$V_R=20V$			
	BRSD103CWSQ		$V_R=10V$			
Reverse Recovery Time	t_{rr}	$I_F=I_R=200mA$ $I_{rr}=0.1 \times I_R$ $R_L=100\Omega$		10		ns
Total Capacitance	C_T	$V_R=0V$ $f=1.0MHz$		50		pF

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

QS4

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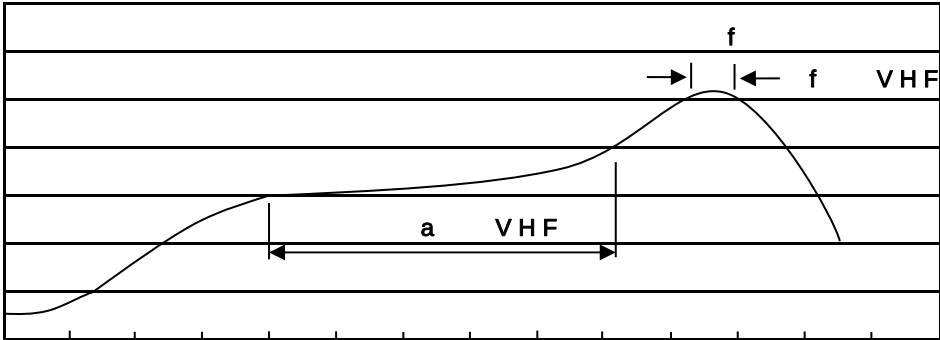
Note:

Q: Automobile halogen-free product Code

S4: Product Type

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

7HPSHUDWXXUH



7LPH VHF

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Note:

- 10• Ä ½ “ † 150 ½200 - k ž • 60 ½120sec; 1.Preheating:150~200 - , Time:60~120sec.
- 20• Q > “ † 255 r5 - k ž • 4 Ò 5 r0.5sec; 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
- 30•D N ò i Ò 0 , † 2 ½10 - /sec. 3. Cooling Speed: 2~10 - /sec.

ÂD /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 /mm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Box
SOD-323	3,000	10	30,000	6	180,000	7 s ×8	180×120×180	390×385×205

„ Ð y f / Notices