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

• Û - æ / Pinning

PIN1:Cathode PIN2:Anode

, M V / Marking

Model	BRSD103AWSQ	BRSD103BWSQ	BRSD103CWSQ
Marking	QS4	QS5	QS6

Ã a ? d / Absolute Maximum Ratings(Ta=25 ;)

@ ƒ Parameter	… Z Symbol	ƒ › Rating			% y Unit
		BRSD103AWSQ	BRSD103BWSQ	BRSD103CWSQ	
Peak Repetitive Reverse Voltage , Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} È V_R	40	30	20	V
RMS Reverse Voltage	V_{R} ÄRMS Å	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			

Ô4ì × ? d / Electrical Characteristics(Ta=25 ;)

@ ƒ Parameter		… Z Symbol	y ¡ Ú ^ Test Conditions	ƒ › Rating			% y Unit
				Â 4 › Min	Á º › Typ	Â Ý › Max	
Reverse Breakdown Voltage		$V_{(BR)}$	I_R=10uA	VR			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	uA
	BRSD103BWSQ		V_R=20V				
	BRSD103CWSQ		V_R=10V				
Reverse Recovery Time		t_{rr}	I_F=I_R=200mA I_{rr}=0.1×I_R R_L=100		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 ƒ / Marking Instructions

QS4

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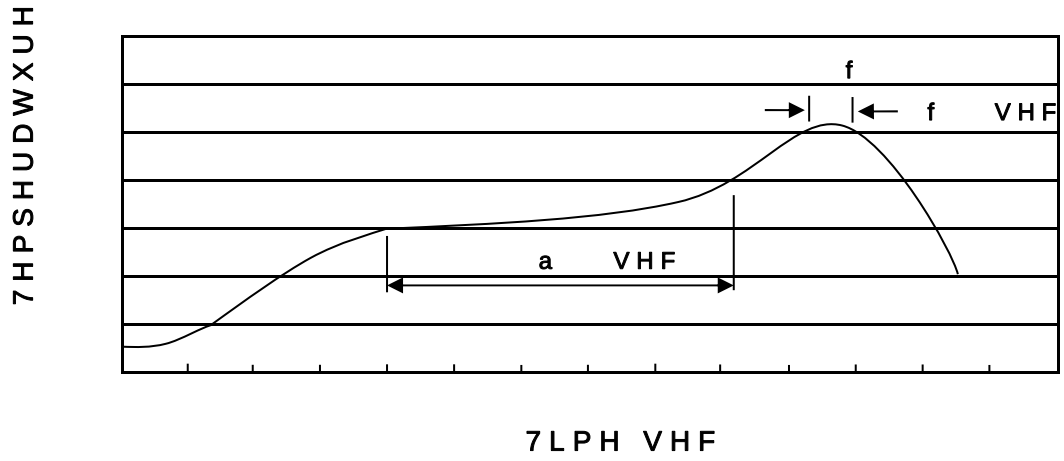
9 y º Z W A

Note:

Q: Automobile halogen-free product Code

S4: Product Type

š WD t ... • Ž ¢ (x /) / : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 6



7LPH VHF

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Note:

1o• Ä ½ “ † 150 ½200 - k ž • 60 ½120sec;

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

2o• Q › “ † 255 r5 - k ž • 4 Ò 5 r0.5sec;

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

3o•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 Æmm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box×	Outer Box1ç
SOD-323	3,000	10	30,000	6	180,000	7 s ×8	180×120×180	390×385×205

„ Ð y ƒ / Notices