

5 é / Descriptions

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SOD-323 Plastic Package 1-Line,Bi-directional , ESD Protection Diode.

□ ª / Features

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; R Z X G Y S G R R V G I Q G M K 8 K Y V U T Y K : O S K O Y : Q V O V C R . [S " G T T M J _ + 9

3 U J K R / +)]] 2 K \ K R + 9 * Qualified to JEDEC Q101 Standards for High Reliability, . , 6 X U J [I Z

Đ ÷ / Applications

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Suitable for cellular phones audio,MP3 players, Digital cameras, Portable devices, mobile telephone and other users.Meet the stringent requirements of automotive applications.

Ã W] Ö • / Equivalent Circuit

• Ů - æ / Pinning

, M V / Marking

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See Marking Instructions.

Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Peak Pulse Power($t_p = 8/20 \text{ s}$)	P_{PK}	320	W
Peak Pulse Current($t_p = 8/20 \text{ s}$)	I_{PP}	7	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 30	KV
ESD according to IEC61000-4-2 contact discharge		± 30	
Junction temperature	T_J	-55~+150	
Storage Temperature	T_{STG}	-55~+150	

Electrical Characteristics($T_a=25^\circ\text{C}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	V_{RWM}				24	V
Reverse leakage current	I_R	$V_{RWM} = 24V$			1	μA
Reverse breakdown voltage ¹⁾	V_{BR}	$I_T=1mA$	26.7			V
Clamping voltage ²⁾	V_{CL}	$I_{PP} = 1A \quad t_p = 8/20 \text{ s}$			40	V
		$I_{PP} = 7A \quad t_p = 8/20 \text{ s}$			52	V
Junction Capacitance	C_J	$V_R = 0V \quad f = 1MHz$			50	pF

Notes:

1) V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C .

2) Non-repetitive current pulse, according to IEC61000-4-5.

Ô ? d • Ž ¢ / Electrical Characteristic Curve(Ta=25 ;)

BRES24VM1B2SBQ

Rev.A Feb.-2025

DATA SHEET

Ø □ =) ¢ / Package Dimensions

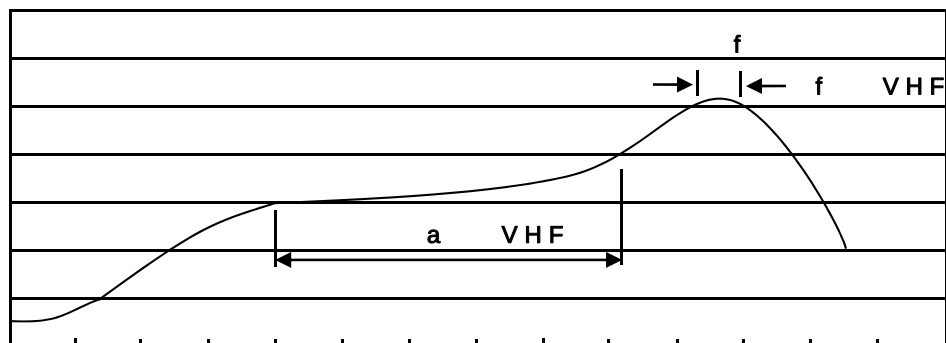
, M y f / Marking Instructions

2H

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Note:
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Product Type Code

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7HPSHUDW XUH



7LPH VHF

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Note:

- 10• Ä ½ “ † 150 ½ 200 - k ž • 60 ½ 120sec; 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 ½ 10 - /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 Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SOD-323	3,000	10	30,000	6	180,000	s ×8 7	180×120×180	390×385×205

„Đ y f / Notices