

5 é / Descriptions

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

α a / Features

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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] Ô . / Equivalent Circuit

• Û - 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($T_a=25 \text{ ;}$)

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 - .

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 □ =) ϕ / Package Dimensions

, M y f / Marking Instructions

2H

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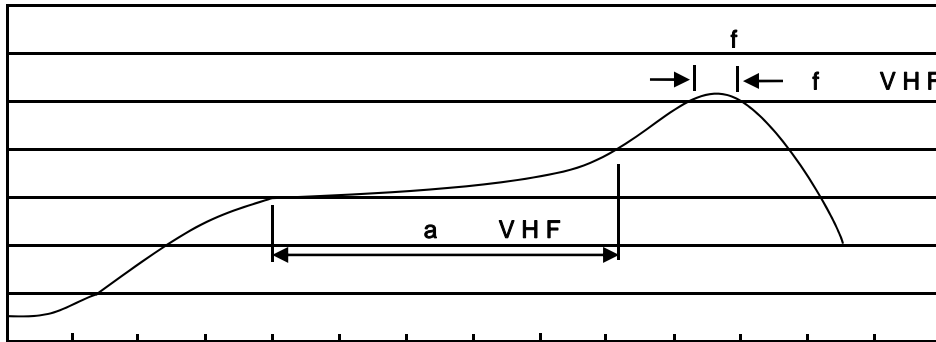
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Note:

. Product Type Code

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

7HPSHUDWXUH



7LPH VHF

a ç y

Note:

- 1. Preheating: 150~200 - , Time: 60~120sec.
- 2. Peak Temp.: 255 r5 - , Duration: 5 r0.5sec.
- 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 - /!ç	Units/Outer Box /!ç	Reel	Inner Box	Outer Boxç
SOD-323	3,000	10	30,000	6	180,000 s x8 7	180x120x180	390x385x205	

„Đ y f / Notices