

/ Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Peak Pulse Power($t_p = 8/20\mu s$)	P_{PK}	350	W
Peak Pulse Current($t_p = 8/20\mu s$)	I_{PP}	8	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~+125	
Storage Temperature	T_{STG}	-55~+150	

/ Electrical Characteristics($T_a=25$)

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		33	V
Clamping voltage ²⁾	V_{CL}	$I_{PP} = 5A \quad t_p = 8/20\mu s$			40	V
		$I_{PP} = 8A \quad t_p = 8/20\mu s$			44	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.

/ Electrical Characteristic Curve(Ta=25)

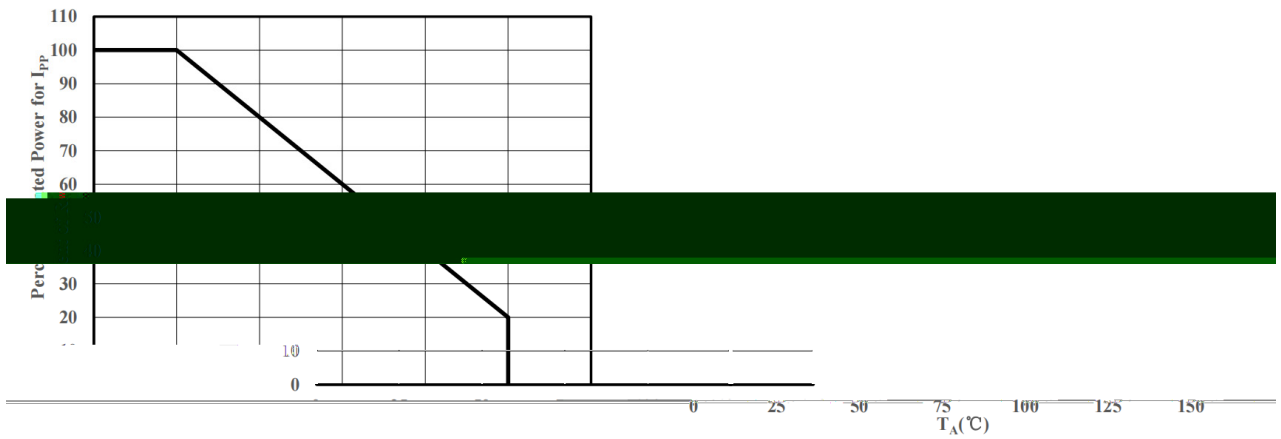
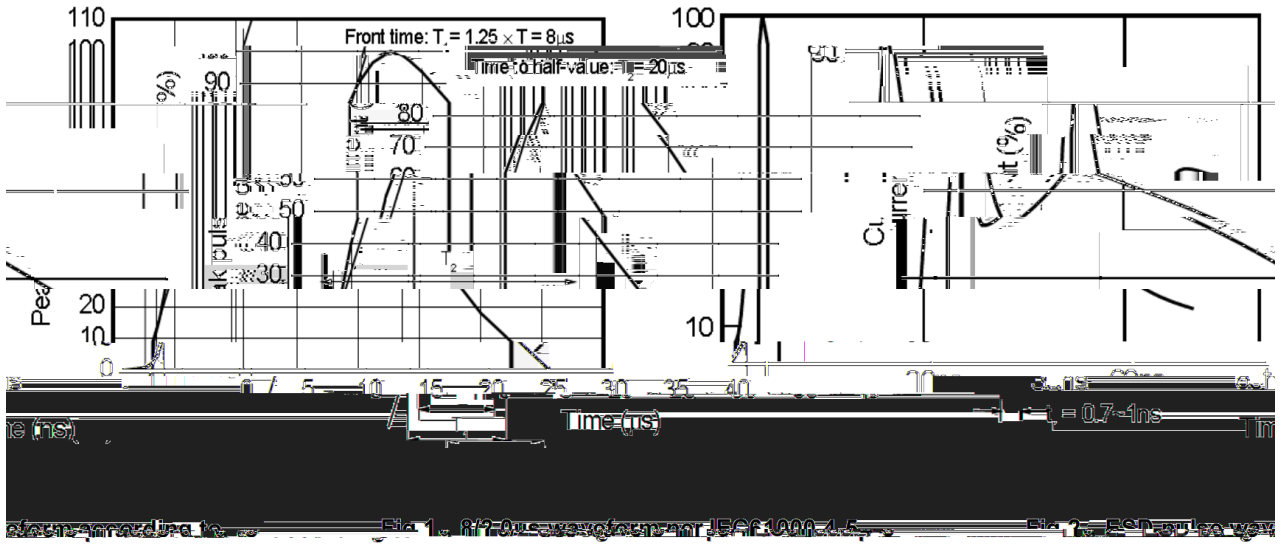
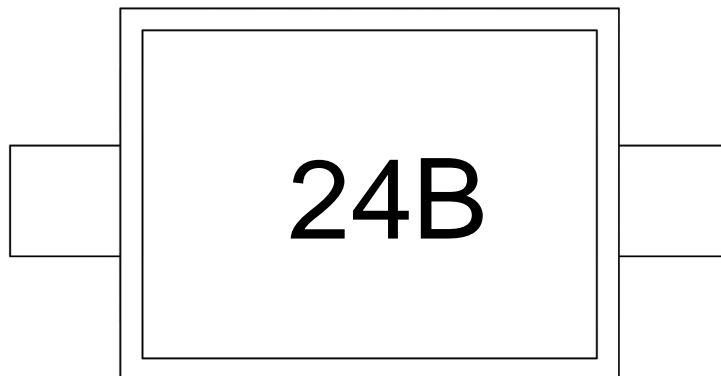


Fig 3 Power Derating Curve

BRES24VM1B2SB

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DATA SHEET

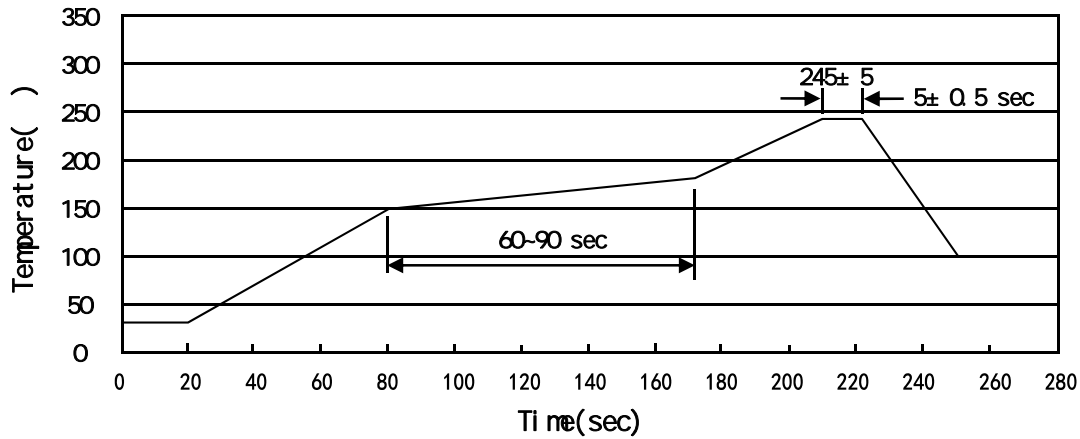


24B:

Note:

24B Product Type Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|----|-----------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)			
	只卷盘	卷盘盒	只盒	盒箱	只箱	盒		箱	
SOD-323	3,000	10	30,000	6	180,000	7	x8	180x120x180	390x385x205

/ Notices