

BRES5V0M1B2ZP

Rev.A Jun.-2021

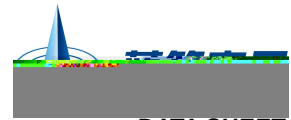
DATA SHEET

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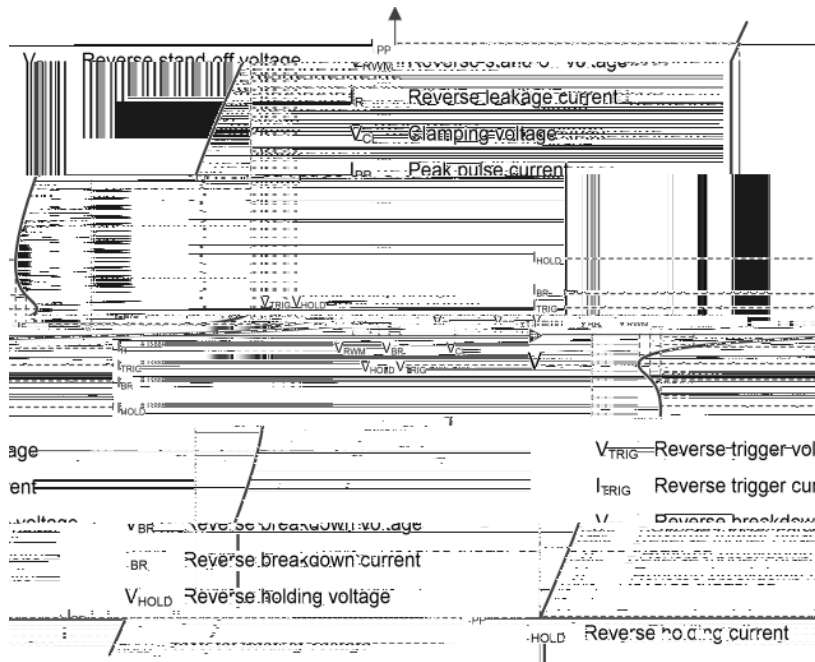
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DATA SHEET



/ Electrical Characteristics(Ta=25)



Definitions of electrical characteristics

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	V_{RWM}				± 5.0	V
Reverse leakage current	I_R	$V_{RWM} = 5.0V$			100	nA
Reverse breakdown voltage	V_{BR}	$I_{BR}=1mA$	5.1			V
Reverse holding voltage	V_{HOLD}	$I_{HOLD}=50mA$	5.1			V
Clamping voltage ¹⁾	V_{CL}	$I_{PP}=16A \quad t_p=100ns$		7.8		V
Dynamic resistance ¹⁾	R_{DYN}			0.1		
Clamping voltage ²⁾	V_{CL}	$V_{ESD} = 8kV$		8.0		V
Clamping voltage ³⁾	V_{CL}	$I_{PP} = 1A \quad t_p = 8/20\mu s$		6.2	8	V
		$I_{PP} = 20A \quad t_p = 8/20\mu s$		9.5	11.5	V
Junction Capacitance	C_J	$V_R = 0V \quad f = 1MHz$		35	45	pF
	C_J	$V_R = 5V \quad f = 1MHz$		25	35	pF

Notes:

1) TLP parameter: $Z_0 = 50 \Omega$, $t_p = 100ns$, $t_r = 2ns$, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

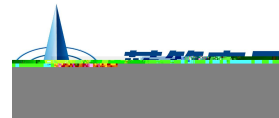
2) Contact discharge mode, according to IEC61000-4-2.

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

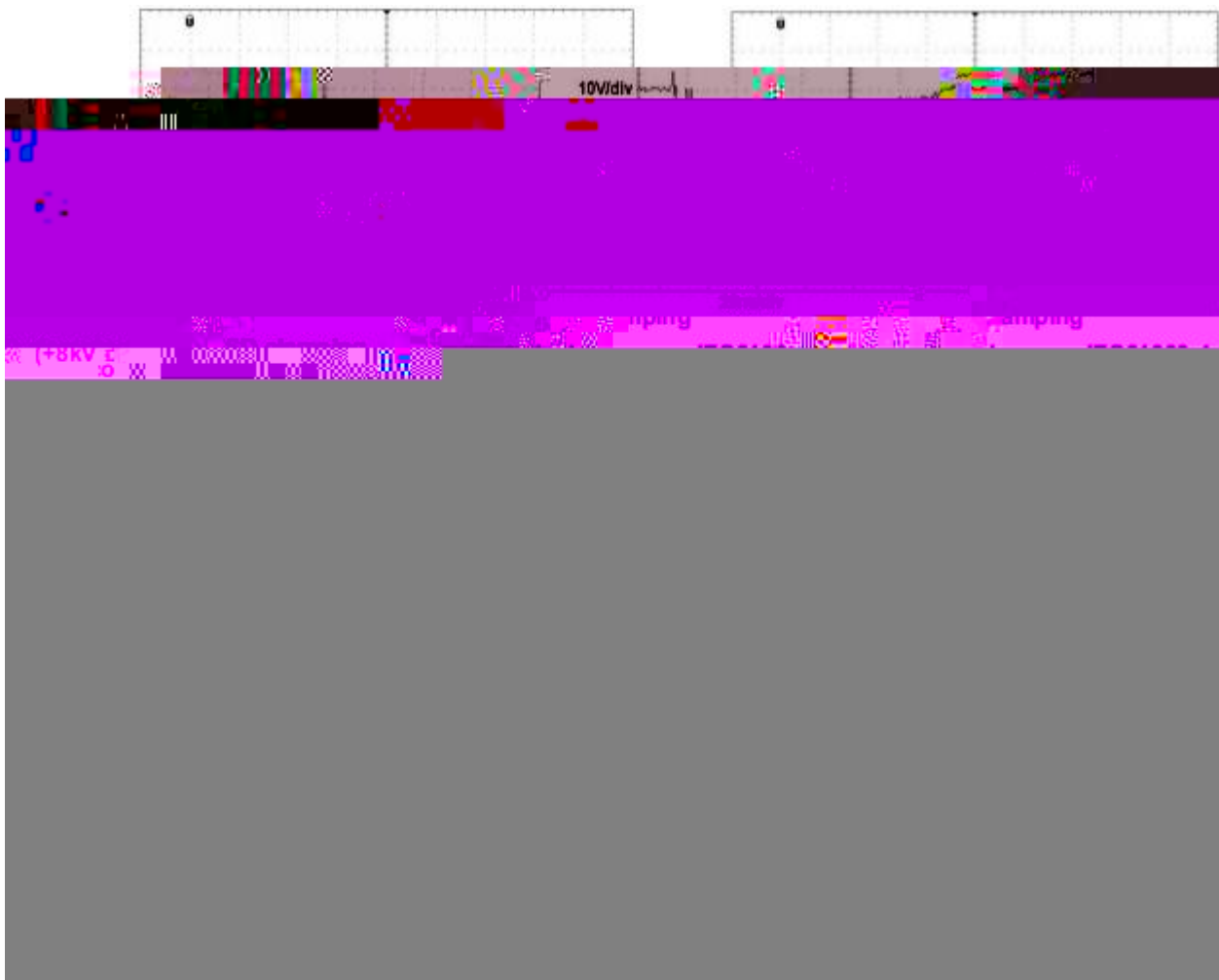
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/ Electrical Characteristic Curve(Ta=25)



/ Marking Instructions

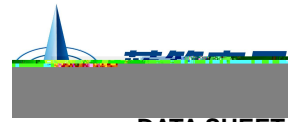


说明：

5B： 为型号代码

Note：

5B： Product Type.



() / 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 , D8