

**BRES5V0X1U2ZPQ**

Rev.A Jan.-2023

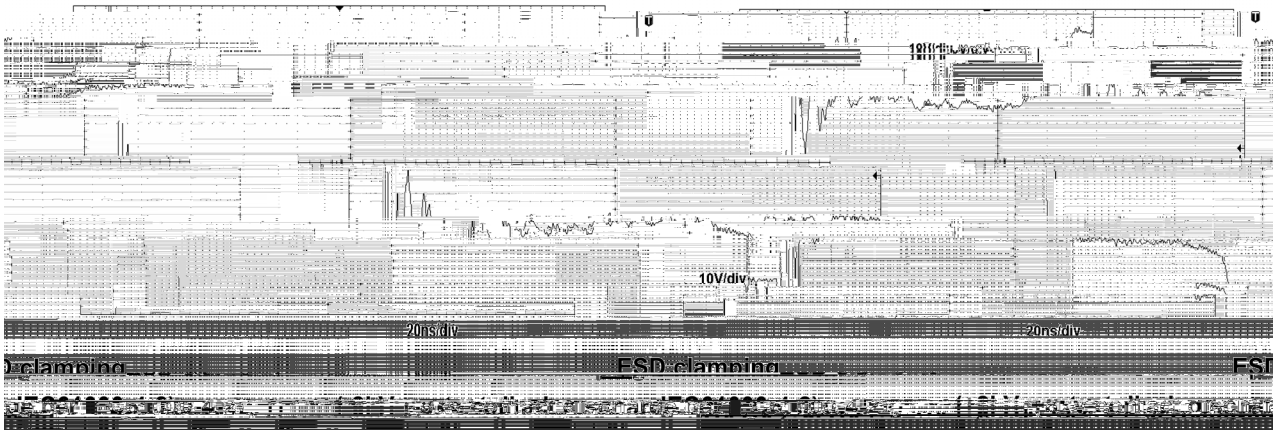
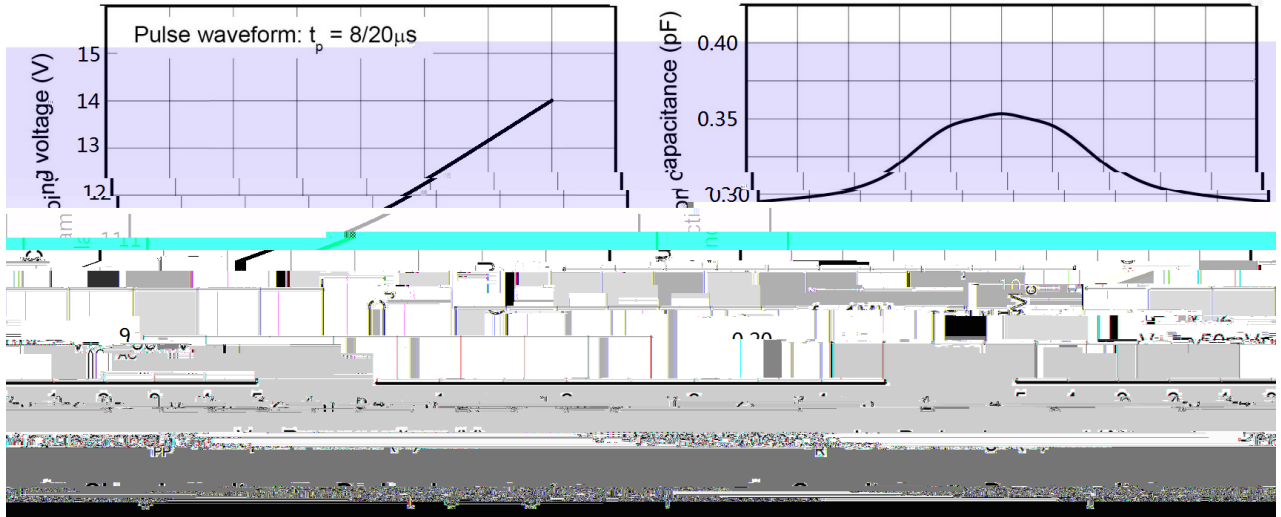
**DATA SHEET**

Parameter	Symbol	Rating	Unit
Peak Pulse Power( $t_p = 8/20\mu s$ )	$P_{PK}$	56	W
Peak Pulse Current( $t_p = 8/20\mu s$ )	$I_{PP}$	4	A
ESD according to IEC61000-4-2 air discharge	$V_{ESD}$	$\pm 20$	KV
ESD according to IEC61000-4-2 contact discharge		$\pm 20$	
Junction temperature	$T_J$	125	
Storage Temperature	$T_{STG}$	-55~+150	

**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 <sup>1)</sup>						

/ Electrical Characteristic Curve(Ta=25 )

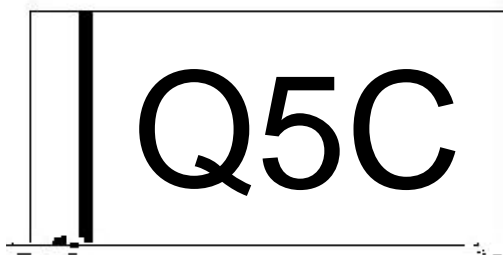


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**DATA SHEET**

/ Marking Instructions



Q

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Note

Q Automobile halogen-free product Code

5C Product Type

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


Note:

- 1            150 200            60 120sec;    1.Preheating:150~200 , Time:60~120sec.
- 2            255±5                    5±0.5sec;    2.Peak Temp.:255±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
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/ Packaging SPEC.

/ REEL

Package Type