



**/ Absolute Maximum Ratings**

Parameter	Symbol	Rating	Unit
Peak pulse power ( $t_p = 8/20\mu s$ )	$P_K$	69	W
Peak pulse current ( $t_p = 8/20\mu s$ )	$I_{PP}$	5.5	A
ESD according to IEC61000-4-2 air discharge	$V_{ESD}$	$\pm 30$	KV
ESD according to IEC61000-4-2 contact discharge		$\pm 30$	
Junction temperature	$T_J$	150	
Storage temperature	$T_{STG}$	-55~+150	

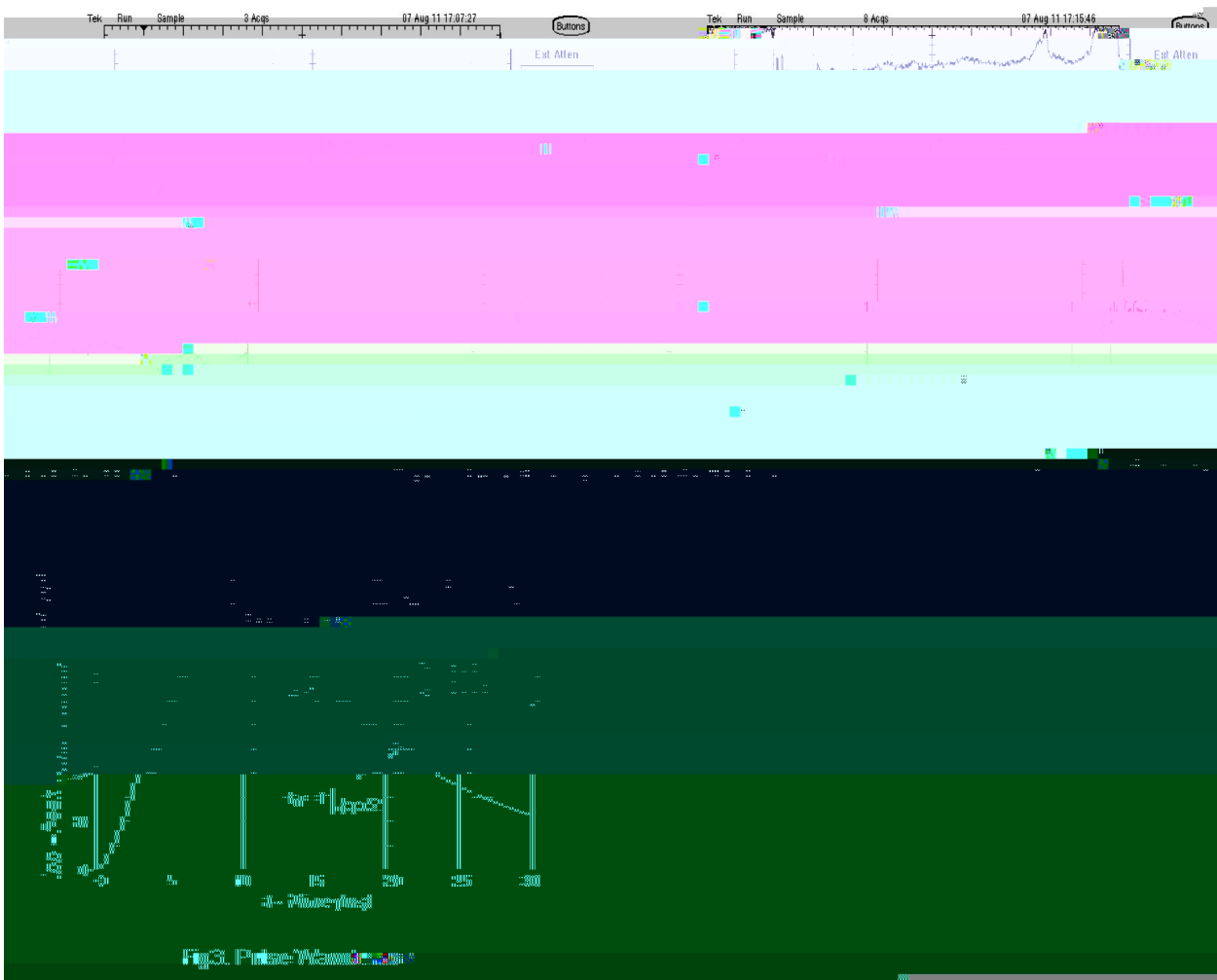
**/ Electrical Characteristics(Ta=25 )**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	$V_{RWM}$				3.3	V
Reverse leakage current	$I_R$	$V_{RWM} = \pm 3.3V$			$\pm 0.1$	$\mu A$
Reverse breakdown voltage <sup>1)</sup>	$V_{BR}$	$I_T = 1mA$	5.0		6.8	V
Clamping voltage <sup>2)</sup>	$V_C$	$I_{PP} = 1A$ $t_p = 8/20\mu s$			9.8	V
		$I_{PP} = 5.5A$ $t_p = 8/20\mu s$			12.5	V
Junction capacitance	$C_J$	$V_R = 0V$ $f = 1MHz$			15	pF

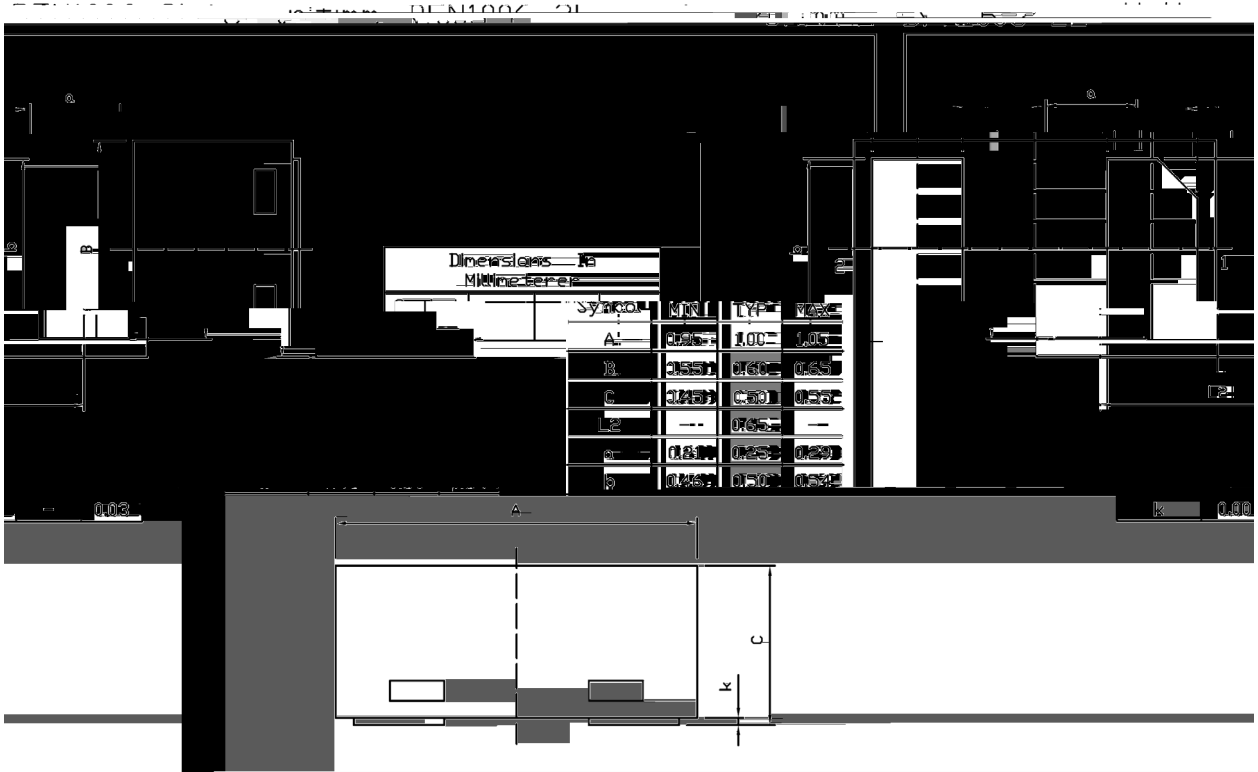
Notes:

- 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



/ Package Dimensions



Rev.01: 202108

**/ Marking Instructions**



Q

3A

Note

Q            Automobile halogen-free product Code

3A           Product Type

**BRES3V3L1B2ZPQ**  
Rev.A May.-2023