


/ Absolute Maximum Ratings(Ta=25)

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}	± 15	KV
ESD according to IEC61000-4-2 contact discharge		± 8	
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}				5.0	V
Reverse leakage current	I_R	$V_{RWM} = 5V$			0.5	μA
		$V_{RWM} = 3.5V$			0.3	μA
Reverse breakdown voltage ¹⁾	V_{BR}	$I_T = 1mA$	5.6			V
Clamping voltage ²⁾	V_C	$I_{PP} = 1A \quad t_p = 8/20\mu s$			9.8	V
		$I_{PP} = 5.5A \quad t_p = 8/20\mu s$			12.5	V
Junction capacitance	C_J	$V_R = 0V \quad f = 1MHz$			15	pF

Notes:

1) V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25 °C.

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

/ Electrical Characteristic Curve

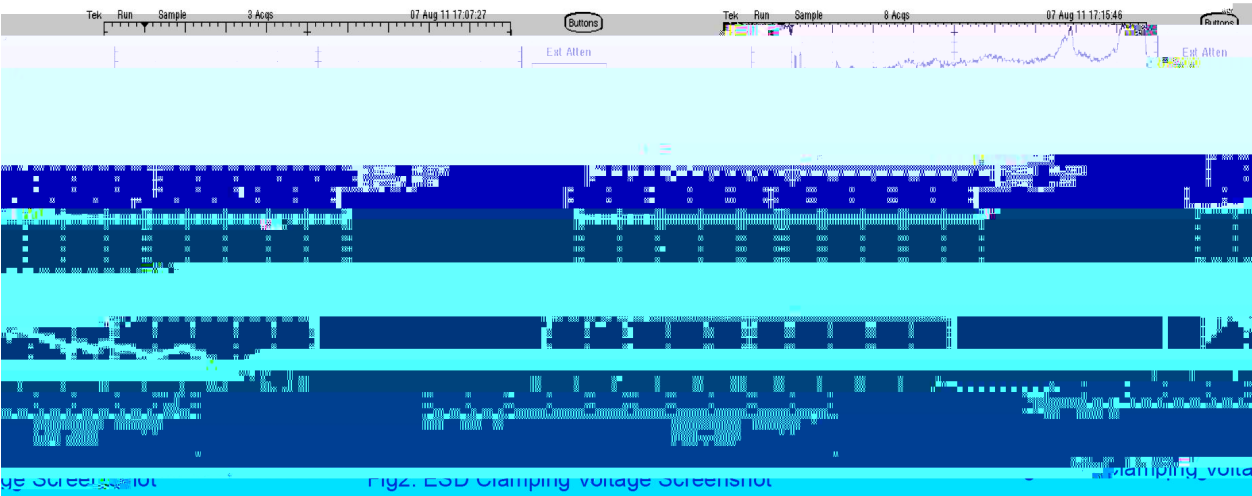


Fig2. ESD Clamping voltage Screenshot

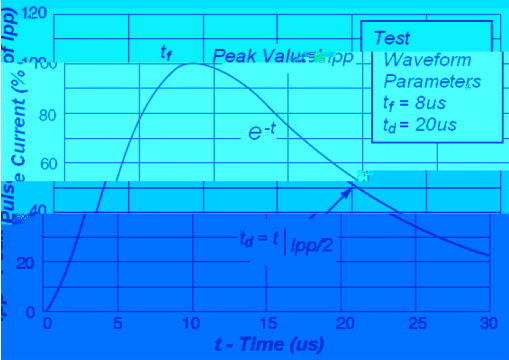
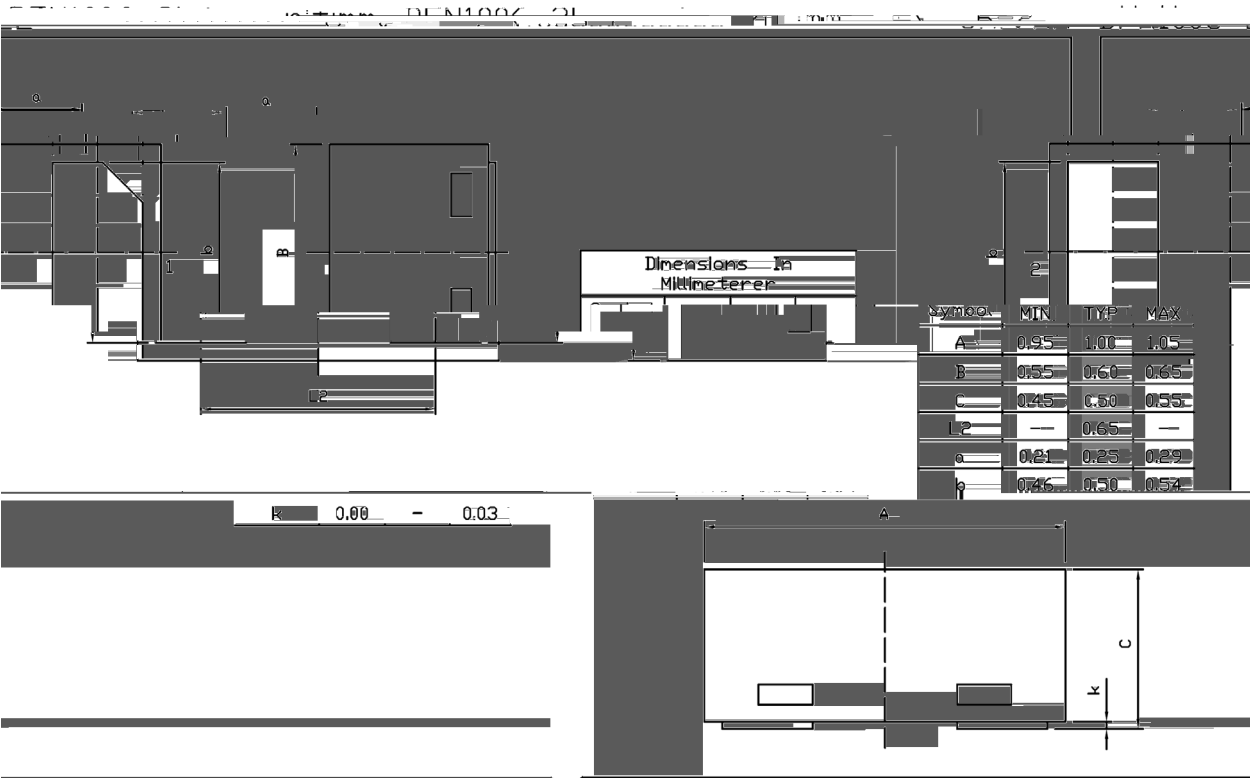


Fig3. Pulse Waveform

/ Package Dimensions



Rev.01: 202108

/ Marking Instructions

Q 5A

Q 5A

Q 5A

Note

BRESD5V0L1B2ZPQ

Rev.A Sep.-2022