# BRESD24V0M2B3MA

## / Absolute Maximum Ratings(Ta=25 )

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Peak Pulse Power (tp = 8/20μs) | $P_{PP}$ | 350 | W |
| Peak Pulse Current (tp = 8/20μs) | $I_{PP}$ | 8.0 | A |
| ESD per IEC 61000-4-2 (Air) | $V_{ESD1}$ | ±30 | kV |
| ESD per IEC 61000-4-2 (Contact) | $V_{ESD2}$ | ±30 | kV |
| Operating Temperature | $T_{OPR}$ | -55 to +150 | |
| Storage Temperature | $T_{STG}$ | -55 to +150 | |

## / Electrical Characteristics(Ta=25 )

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Reverse Stand-Off Voltage | $V_{RWM}$ | | | | 24 | V |
| Reverse Breakdown Voltage | $V_{BR}$ | It=1mA | 26.7 | | | V |
| Reverse Leakage Current | $I_R$ | $V_{RWM}$=24V T=25 | | | 1 | μA |
| Clamping Voltage | $V_C$ | $I_{PP}$ =1.0A $t_p$=8/20μS | | | 33 | V |
| | $V_C$ | $I_{PP}$ =8.0A $t_p$=8/20μS | | | 44 | V |
| Capacitance. Any I/O pin to GND | $C_J$ | $V_R$=0V f=1MHz | | 25 | 30 | pF |

## / Electrical Characteristic Curve

**Fig.1 Non-Repetitive Pulse Power vs.Pulse Time**

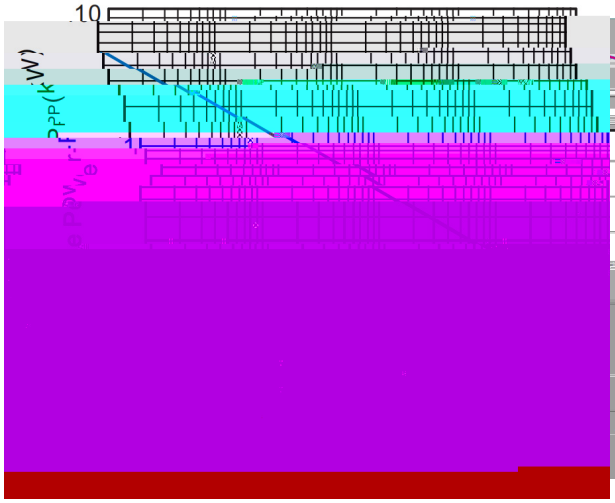
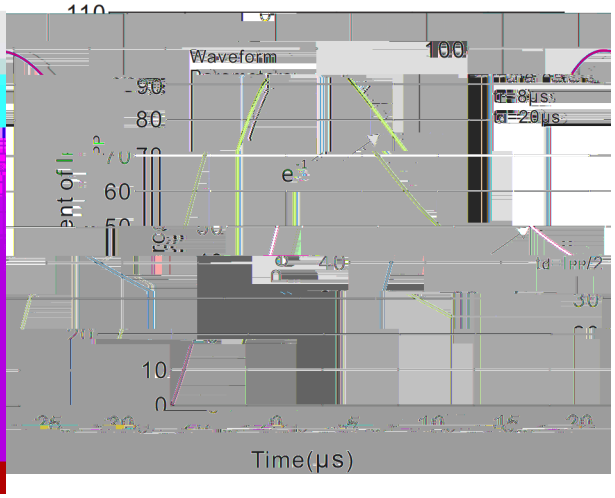


**Fig.2 Pulse Waveform**

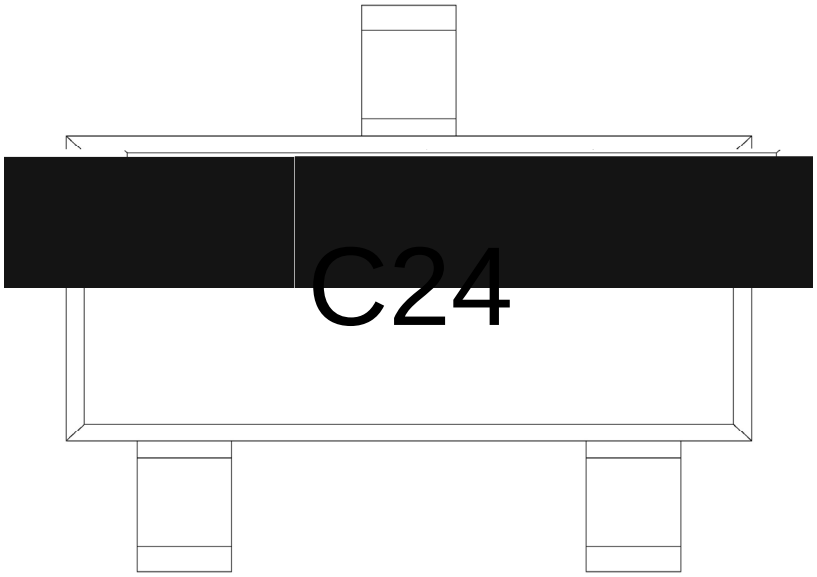


# BRESD24V0M2B3MA

Rev.B Apr.-2024

**DATA SHEET**

## / Marking Instructions




C24

Note:

C24: Product Type Code

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

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Note:

1 150 180 60