

BRCO2600AME

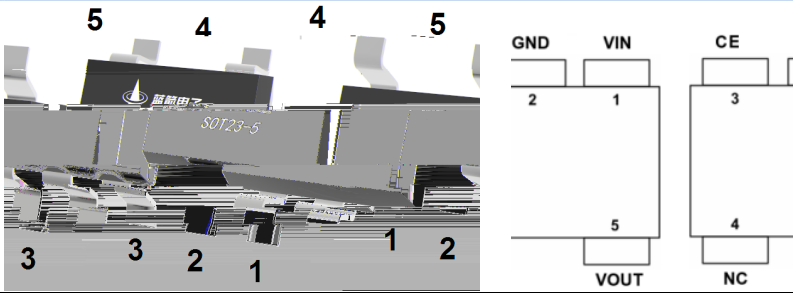
Rev.A Oct.-2024



(8)5 '3+ ©%².Y)359 W+ò- Ý½ €•o•ä › ò Ao•z™ Ò z9[¿ Å|9~ož
¿ â„ ä,€•ÔÅ •V¿ú v f kñYÔđ `... 9ô4C0ÈD} ož

- ‹ z ÿ ß™ Ò y 40uVrms g 10Hz~100kHz h
- ‹ z 9[y 80mV@100mA
- ‹ ÿ ß v y 300mA
- ‹ z² Á W• v y 35uA

• Ú - æ / Pinning



| | | | | | |
|---|-----|---------------|---|------|---------|
| – | df | | – | df | |
| 1 | VIN | 9 ÿ µ € | 4 | NC | — H N |
| 2 | GND | , a | 5 | VOUT | 9 ÿ ß € |
| 3 | CE | ... € k ä u Ä | | | |

1 Y & , M / Part Number & Marking

| ° Z | ÿ ß 9 (V) | -- |
|-----------------|-----------|-----------|
| BRCO2600AME-1.2 | 1.2 | • - - a ç |
| BRCO2600AME-1.5 | 1.5 | |
| BRCO2600AME-1.8 | 1.8 | |
| BRCO2600AME-2.5 | 2.5 | |
| BRCO2600AME-2.8 | 2.8 | |
| BRCO2600AME-3.0 | 3.0 | |
| BRCO2600AME-3.3 | 3.3 | |

Ã a ? d / Absolute Maximum Ratings(Ta=25 ;)

| @ f | ... Z | f , | % y |
|-------------------|-------------------|--------------------------------|-----|
| ÿ µ 9 | V _{IN} | -0.3 to 7 | V |
| ÿ ß 9 | V _{OUT} | -0.3 to (V _{IN} +0.3) | V |
| ÿ ß v | I _{OUT} | 600 | mA |
| ô • ä | P _D | 0.4 | W |
| ¥ “ † | T _{stg} | -65 to +150 | °C |
| W • È “ | T _j | -40 to +150 | °C |
| W • “ † | T _A | -40 to +85 | °C |
| ' D N “ † g 10s h | T _{sold} | 260 | °C |
| ESD ^ ^ | K } % ” g . (3 h | 12 | KV |
| | Ñ ~ % ” g 3 3 h | 1200 | V |

Electrical Characteristics (T_A=25 ; , V_{IN}=V_{OUT}+1V, C_{IN}=C_{OUT}=1uF, unless otherwise specified)

| @ f | ... Z | y i Ú ^ | Â 4 › | Á ° › | Â Ý › | % y |
|----------------------|--|---|------------------------------|---------------------|------------------------------|------|
| ÿ µ 9 | V _{IN} | - | 1.5 | | 6.0 | V |
| ÿ ß 9 ^{g1h} | V _{OUTgEh} | I _{OUT} =1mA | V _{OUTgSh} *0.98 | V _{OUTgSh} | V _{OUTgSh} *1.02 | V |
| ² Á W • v | I _{SS} | I _{OUT} =0mA | | 35 | 75 | uA |
| - Ñ v | I _{SHDN} | V _{CE} =0V | | 0.1 | 1 | uA |
| ÿ ß v | I _{OUT} | | 300 | | | mA |
| ÿ ß v ' ò | I _{LIM} | V _{OUT} = 90% V _{OUT(Normal)} | 500 | 600 | | mA |
| ÿ µ ÿ ß 9 [g2h | V _{dorop} | I _{OUT} =100mA V _{OUTASÄ} •3.3V | | 80 | | mV |
| ¿ ú² ... ä | V _{load} | V _{IN} =V _{OUTASÄ} +1V 1mA 0 I _{OUT} 0 100mA | | 10 | | mV |
| ¿ Å² ... ä | V _{OUT} / (V _{IN} *V _{OUT}) | I _{OUT} =10mA V _{OUTASÄ} +1V 0 V _{IN} 0 6V | | 0.01 | 0.2 | %/V |
| ÿ ß 9 " † © f | V _{OUT} / (T _A *V _{OUT}) | I _{OUT} =10mA -40 0 T _A 0 f 85 | | 50 | | ppm/ |
| ÿ ß ? è v | I _{short} | V _{OUT} =V _{SS} | | 120 | | mA |
| › ¼ f ò A | PSRR | I _{OUT} =50mA Èf=100Hz | | 78 | | dB |
| | | I _{OUT} =50mA Èf=1kHz | | 85 | | |
| | | I _{OUT} =50mA Èf=10kHz | | 75 | | |
| CE ä u | V _{CE_H} | | 1.5 | | V _{IN} | V |
| CE z u | V _{CE_L} | | | | 0.3 | V |
| ½ ¼ •f9 › | T _{SD} | | | 160 | | °C |
| ½ ¼ •• | T _{SD} | | | 20 | | °C |
| C _{OUT} y Š | R _{DISCHRG} | V _{IN} = 5V, V _{OUT} = 3.0V, V _{CE} = V _{SS} | | 100 | | |

(1) V_{OUTgEh} Ž ÿ ß 9 k V_{OUTgSh} — ö ÿ ß 9

(2) ÿ µ ÿ ß 9 [# y i ¿ ú Ú ^ k ÿ ß 9 V_{OUT} k Ú ä ' ÿ µ 9 k + ÿ ß 9 ' z ñ V_{OUT}*98% Ž k
ÿ µ 9 y ÿ ß 9 [› ož

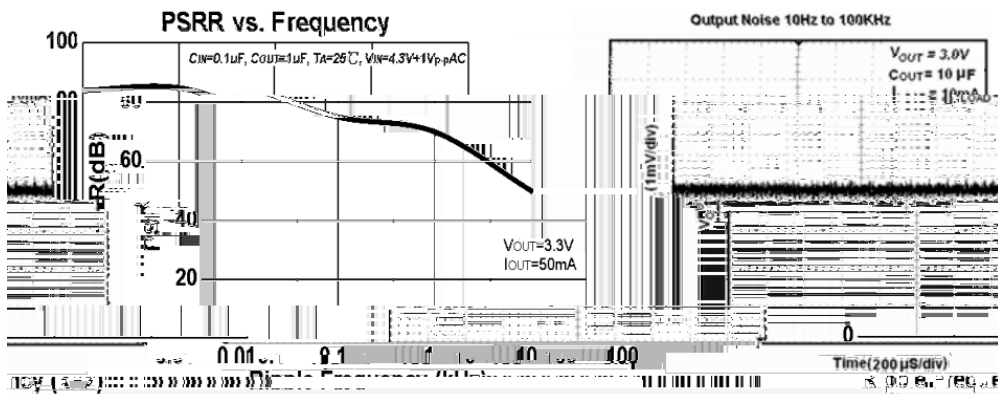
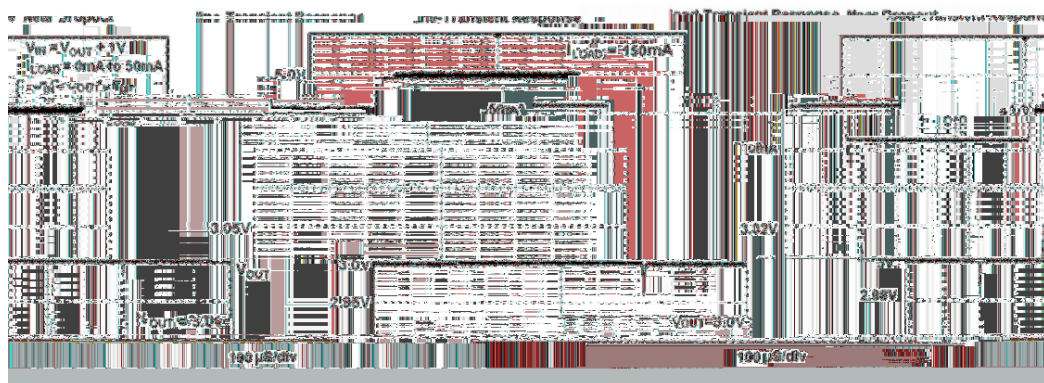
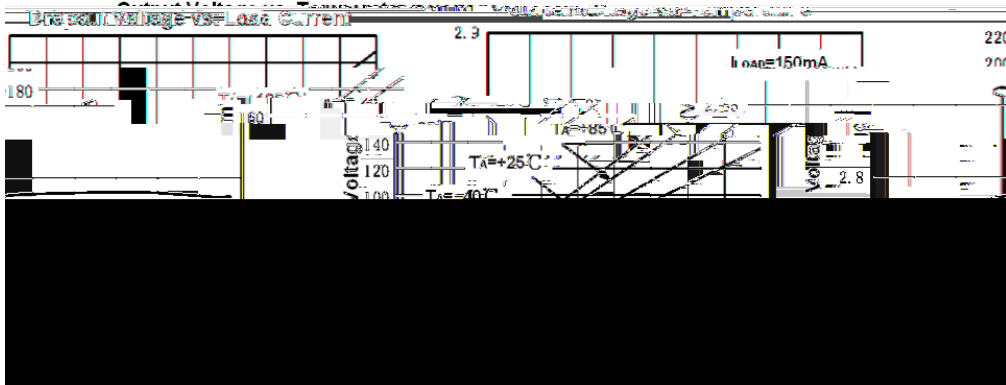
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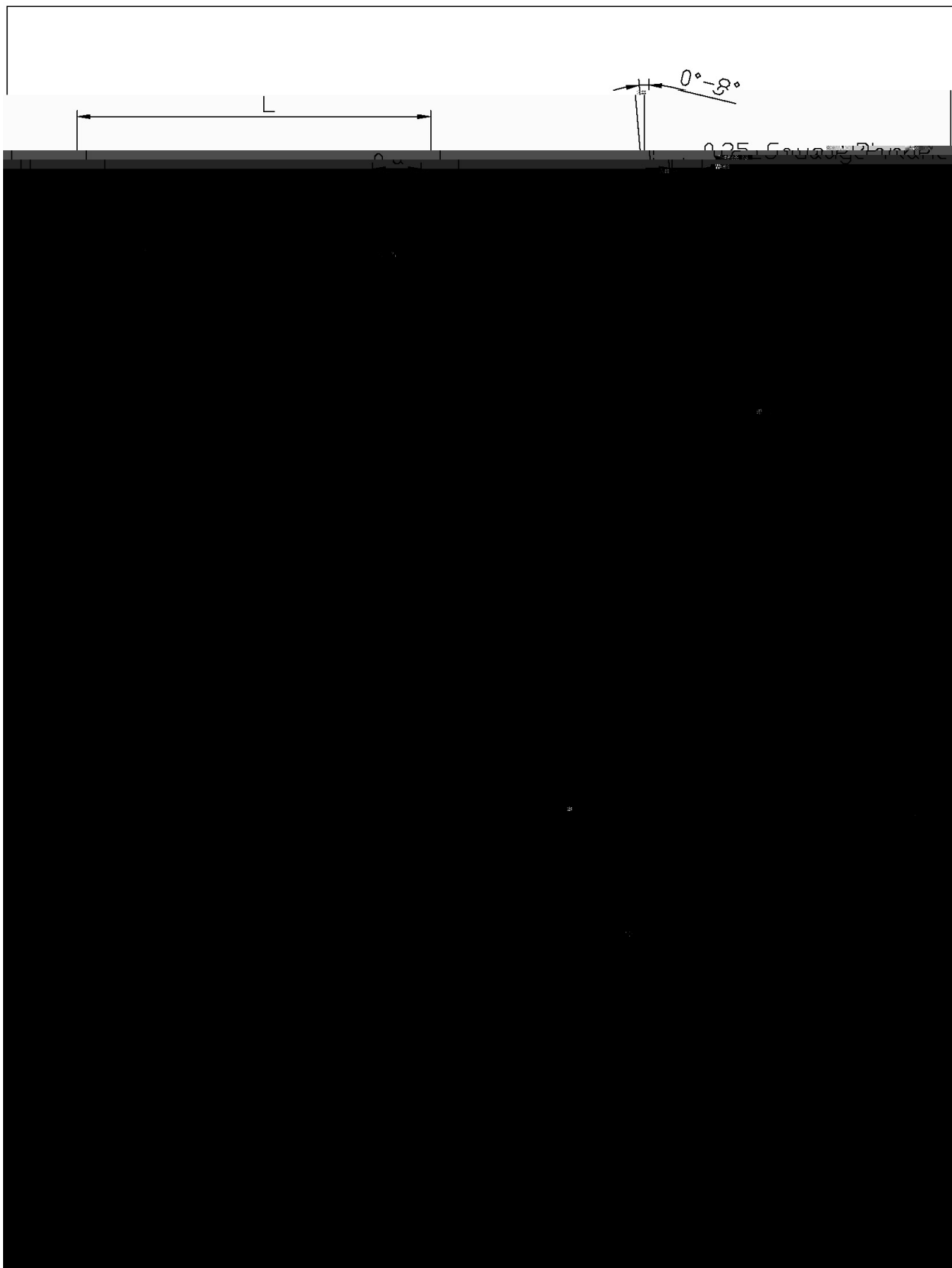
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Ø □ =) φ / Package Dimensions



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DATA SHEET

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šWD t...•Žϕ (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

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^a ϕ y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ~ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 -

ž • y 10 r1 sec.

Temp.:260±5 00>û [•