

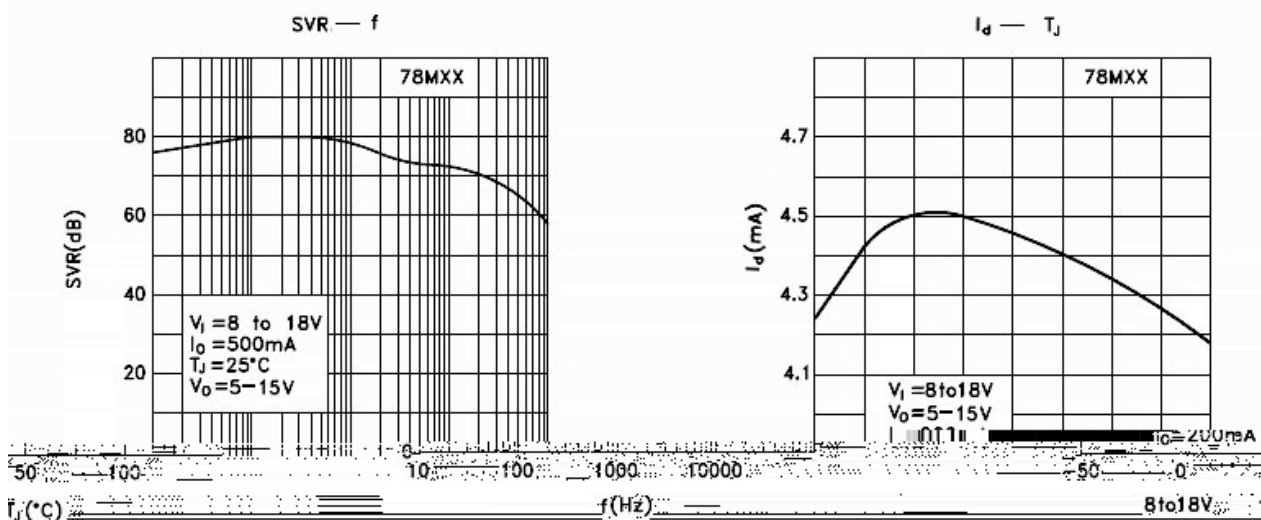
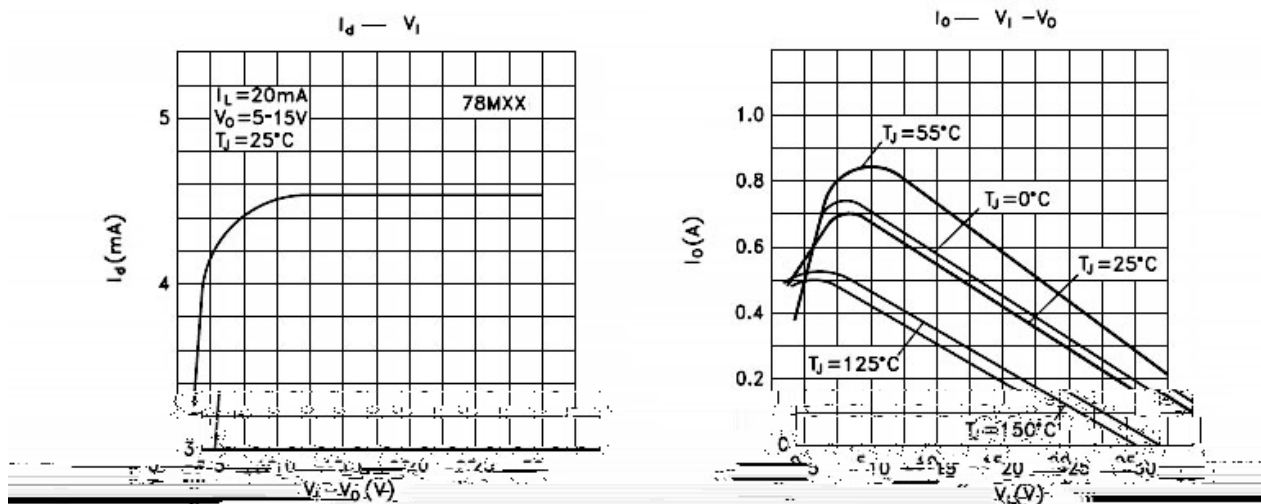
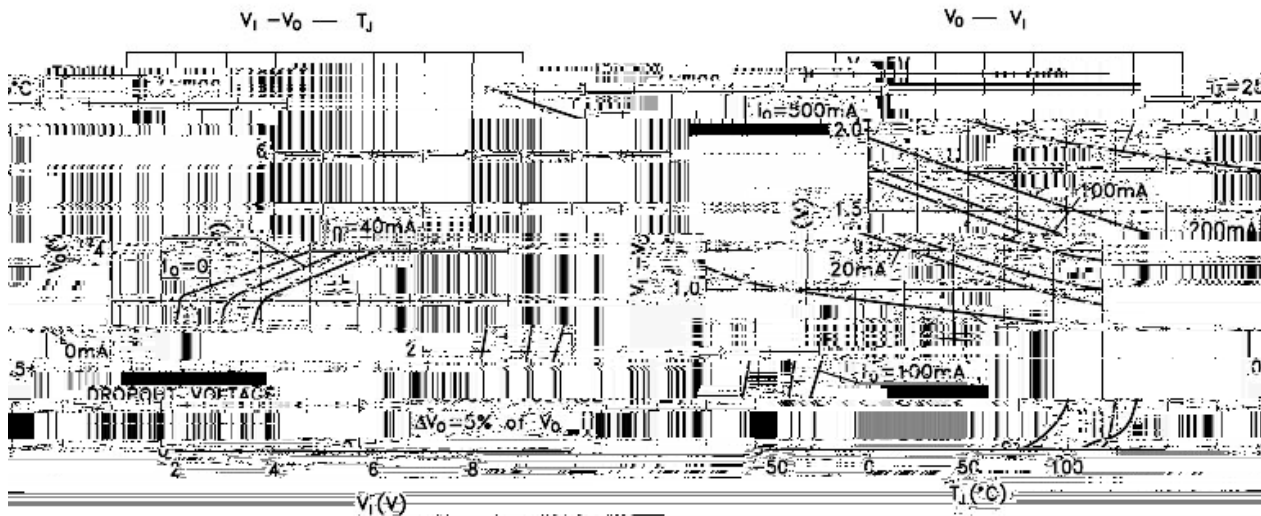
Rev.G Dec.-2018

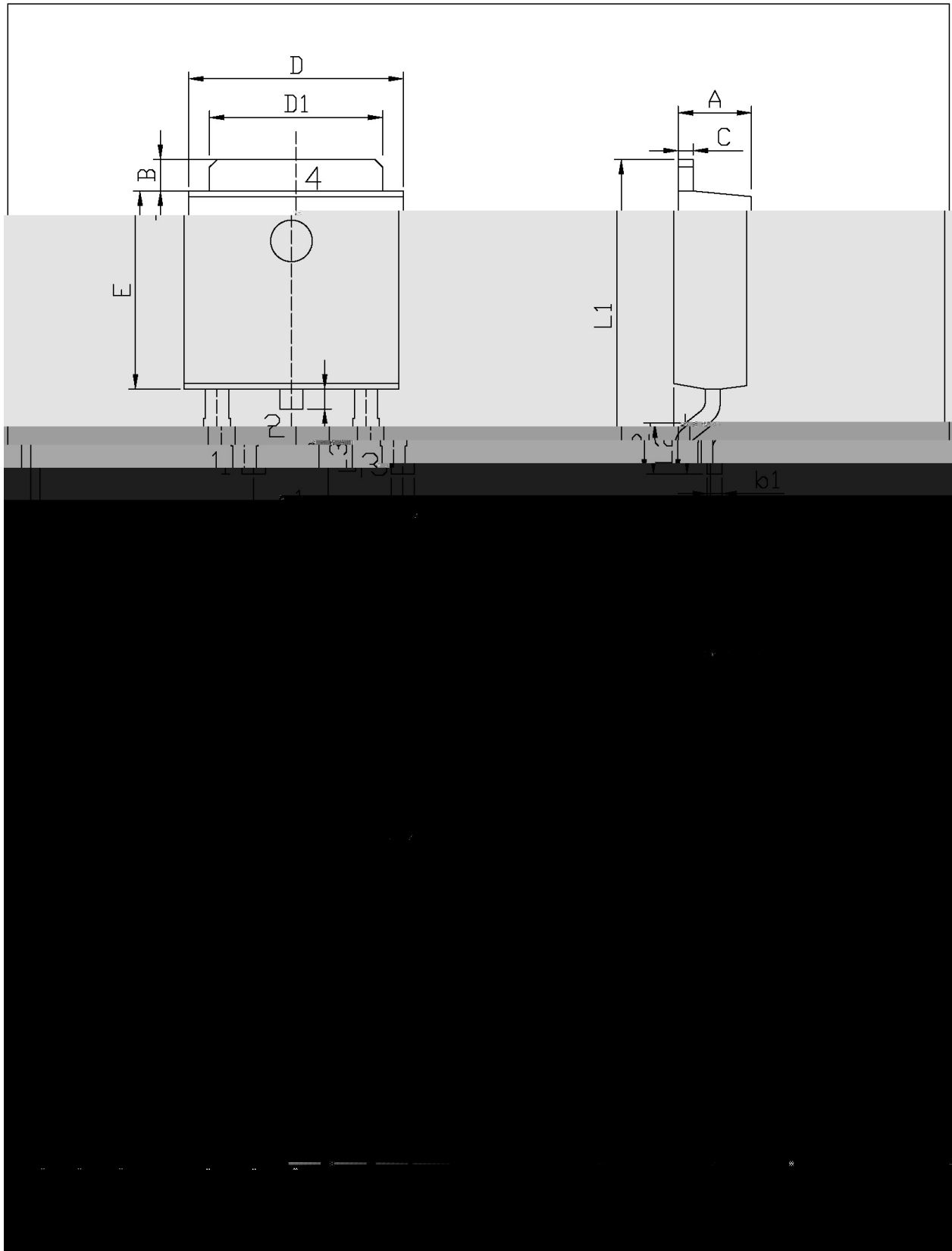
TO-252

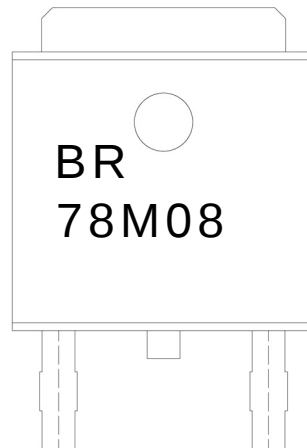
Voltage Regulator in a TO-252 Plastic Package.

| Parameter                            | Symbol    | Rating  | Unit |
|--------------------------------------|-----------|---------|------|
| Input voltage                        | $V_i$     | 35      | V    |
| Thermal Resistance Junction-ambient  | $R_{JA}$  | 100     | /W   |
| Thermal Resistance Junction-case     | $R_{JC}$  | 8.0     | /W   |
| Operating Junction Temperature Range | $T_{OPR}$ | 0 125   |      |
| Storage temperature range            | $T_{stg}$ | -65 150 |      |

| Parameter                | Symbol   | Test Conditions                    | Min | Typ | Max | Unit |
|--------------------------|----------|------------------------------------|-----|-----|-----|------|
| Output voltage           | $V_o$    | $T_j=25$                           | 7.8 | 8   | 8.2 | V    |
|                          |          | $V_i=10.5V-25V$<br>$I_o=5mA-350mA$ | 7.7 | 8   | 8.3 | V    |
| Load Regulation          | $V_o$    | $T_j=25$<br>$I_o=5mA-500mA$        |     |     | 100 | mV   |
|                          |          | $T_j=25$<br>$I_o=5mA-200mA$        |     |     | 50  | mV   |
| Line regulation          | $V_o$    | $T_j=25$<br>$V_i=10.5V-25V$        |     |     | 100 | mV   |
|                          |          | $T_j=25$<br>$V_i=11V-25V$          |     |     | 50  | mV   |
| Output Noise Voltage     | eN       | $T_j=25$<br>$B=10Hz-100KHz$        |     | 52  |     | V    |
| Supply Voltage Rejection | SVR      | $f=120Hz$<br>$V_i=11.5V-21.5V$     | 56  |     |     | dB   |
| Short Circuit Current    | Isc      | $V_i=35V$ $T_j=25$                 |     | 250 |     | mA   |
| Quiescent Current        | $I_d$    | $T_j=25$                           |     |     | 6   | mA   |
| Quiescent Current Change | $I_d$    | $V_i=8V-25V$                       |     |     | 0.8 | mA   |
|                          |          | $I_o=5mA-350mA$                    |     |     | 0.5 | mA   |
| Output Voltage Drift     | $V_o/ T$ | $I_o=5mA$                          |     | 0.5 |     | mV/  |







BR

78M08

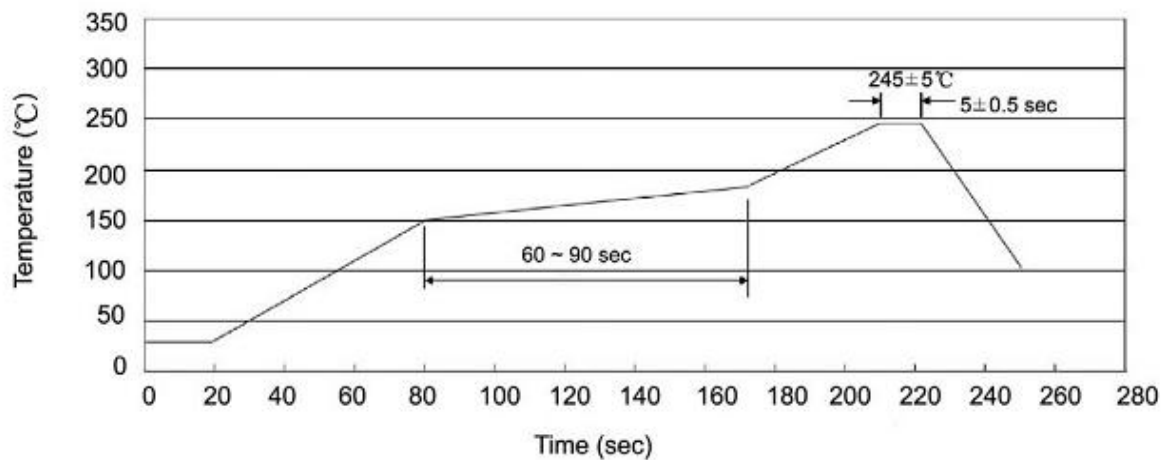
\*\*\*\*

Note:

BR: Company Code.

78M08: Product Type.

\*\*\*\*: Lot No. Code, code change with Lot No.



Note:

- |   |       |     |    |           |                                         |
|---|-------|-----|----|-----------|-----------------------------------------|
| 1 | 150   | 180 | 60 | 90sec;    | 1.Preheating:150~180 , Time:60~90sec.   |
| 2 | 245±5 |     |    | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 |       | 2   | 10 | /sec.     | 3. Cooling Speed: 2~10 /sec.            |

|       |           |            |               |
|-------|-----------|------------|---------------|
| 260±5 | 10±1 sec. | Temp:260±5 | Time:10±1 sec |
|-------|-----------|------------|---------------|

/ REEL

| Package Type<br>封装形式 | Units 包装数量 |      |     |     |     | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |   |   |
|----------------------|------------|------|-----|-----|-----|-----------------------------------------|---|---|
|                      | 只 卷盘       | 卷盘 盒 | 只 盒 | 盒 箱 | 只 箱 |                                         | 盒 | 箱 |
|                      |            |      |     |     |     |                                         |   |   |

/ TUBE

| Package Type<br>封装形式 | Units 包装数量 |      |     |     |     | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |   |   |
|----------------------|------------|------|-----|-----|-----|-----------------------------------------|---|---|
|                      | 只 套管       | 套管 盒 | 只 盒 | 盒 箱 | 只 箱 | 套管                                      | 盒 | 箱 |
|                      |            |      |     |     |     |                                         |   |   |