TO-220 N MOS N-CHANNEL MOSFET in a TO-220 Plastic Package.

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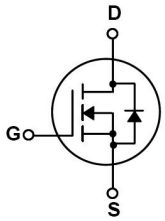
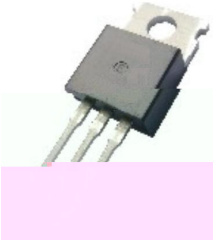
Low gate charge, low crss, fast switching.

DC/DC

These devices are well suited for high efficiency switching DC/DC converters and switch mode power supplies.



PIN1 G PIN 2 D PIN 3 S

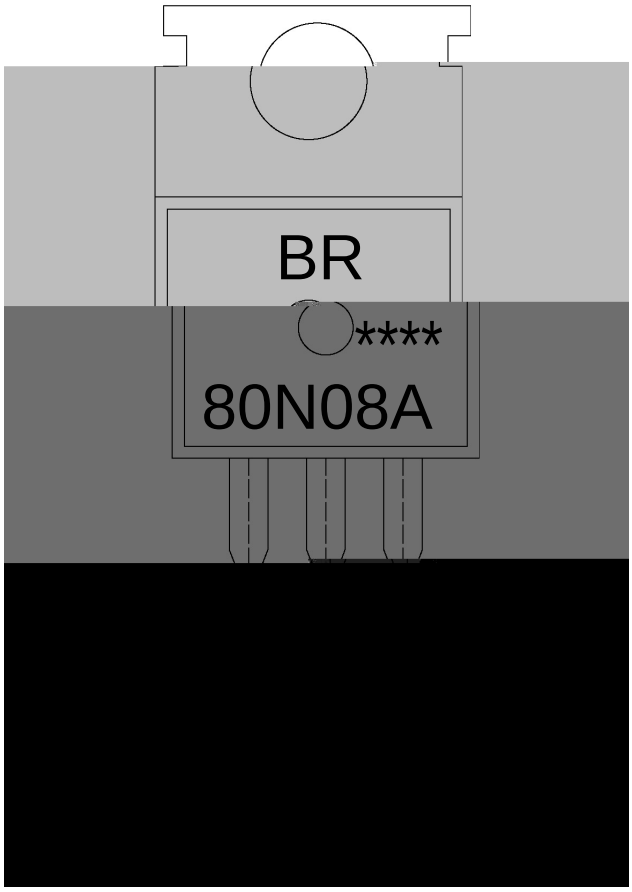
See Marking Instructions.

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Drain-Source Voltage | $V_{DSS}$ | 80 | V |
| Drain Current | $I_D$(Tc=25 ) | 100 | A |
| Drain Current | $I_D$(Tc=100 ) | 72 | A |
| Peak Drain Current | $I_{DM}$ | 320 | A |
| Gate-Source Voltage | $V_{GSS}$ | ±20 | V |
| Repetitive Avalanche Energy | $E_{AS}$ | 790 | mJ |
| Repetitive Avalanche Energy | $E_{AR}$ | 13.1 | mJ |
| Avalanche Current | $I_{AR}$ | 75 | A |
| Total Power Dissipation | $P_D$(Tc=25 ) | 165 | W |

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Forward On Voltage | $V_{SD}$ | $V_{GS}$=0V $I_S$=40A | | | 1.3 | V |
| Reverse Recovery Time | $t_{rr}$ | $I_S$=40A $V_{GS}$=0V dI/dt=100A/us | | 48 | | ns |
| Reverse Recovery charge | $Q_{rr}$ | | | 105 | | nC |

[redacted]

Dimensions In Millimeters
Symbol
Min
Max
A
9.8
10.2
B
15.7
16.1
C
1.2
1.4
9.0
9.4
1.45
0.2
1.25



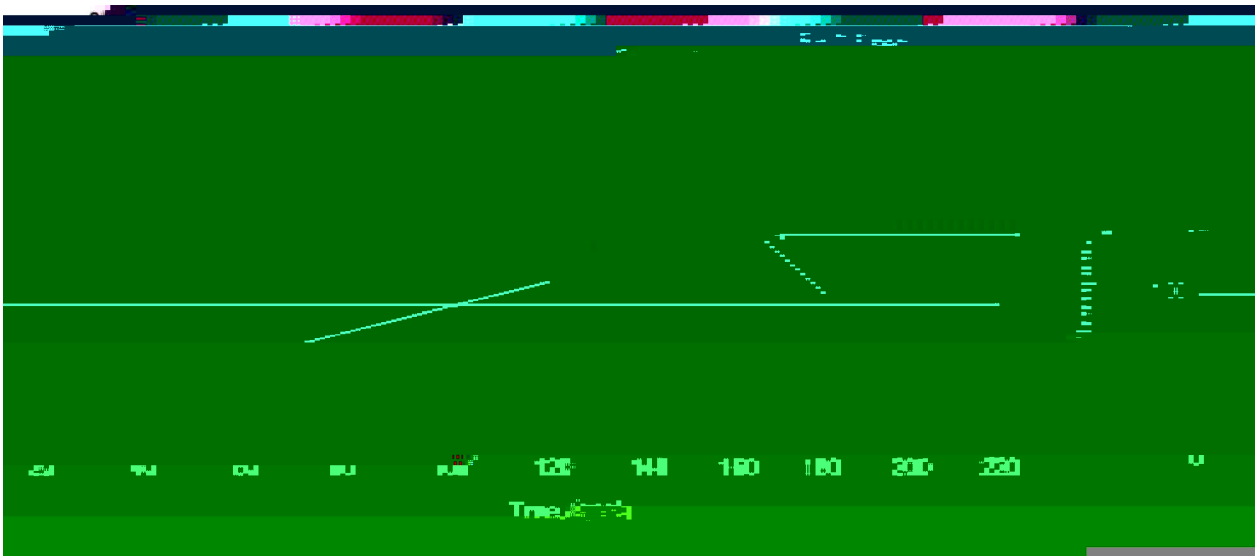

BR

80N08A

****

Note:

| | |
|---|---|
| BR: | Company Code |
| 80N08A: | Product Type. |
| ****: | Lot No. Code, code change with Lot No. |



| | | | |
|---|---|---|---|
| | | | Note: |
| 1 | 25 150 | 60 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255±5 | 5±0.5sec; | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |
| 3 | 2 10 /sec. | | 3. Cooling Speed: 2~10 /sec. |

| | | | |
|---|---|---|---|
| 270±5 | 10±1 sec. | Temp.:270±5 | Time:10±1 sec |

/ BULK

| Package Type | Units | | | | | Dimension (unit mm$^3$) | | |
|---|---|---|---|---|---|---|---|---|
| | Units/Bag / | Bags/Inner Box / | Units/Inner Box / | Inner Boxes/Outer Box / | Units/Outer Box / | Bag | Inner Box | Outer Box |
| TO-220/F | 200 | 10 | 2,000 | 5 | 10,000 | 135×190 | 237×172×102 | 560×245×195 |

/ TUBE

| Package Type | Units | | | | | Dimension (unit mm$^3$) | | |
|---|---|---|---|---|---|---|---|---|
| | Units/Tube / | Tubes/Inner Box / | Units/Inner Box / | Inner Boxes/Outer Box / | Units/Outer Box / | Tube | Inner Box | Outer Box |
| TO-220/F | 50 | 20 | 1,000 | 5 | 5,000 | 532×31.4×5.5 | 555×164×50 | 575×290×180 |