

# Super-junction MOSFET

UTC provides high-performance super-junction MOSFET of 450V~1200V

| Part Number | VDSS | R <sub>DS(ON),MAX</sub> | Part Number | VDSS | R <sub>DS(ON),MAX</sub> | Part Number | VDSS  | R <sub>DS(ON),MAX</sub> |
|-------------|------|-------------------------|-------------|------|-------------------------|-------------|-------|-------------------------|
| 4NM45       | 450V | 1.42Ω                   | 02NM65      | 650V | 17Ω                     | 30NM80-Q    | 800V  | 190mΩ                   |
| 8NM45       | 450V | 550mΩ                   | 2NM65-Q     | 650V | 3.1Ω                    | 50NM80-Q    | 800V  | 100mΩ                   |
| 04NM50      | 500V | 12Ω                     | 9NM65Z-U3   | 650V | 700mΩ                   | 2NM90       | 900V  | 5.3Ω                    |
| 08NM50      | 500V | 9Ω                      | 13NM65Z-U3  | 650V | 430mΩ                   | 4NM90Z-Q    | 900V  | 3.1Ω                    |
| 3NM50       | 500V | 1.8Ω                    | 18NM65Z-U3  | 650V | 350mΩ                   | 11NM90-Q    | 900V  | 920mΩ                   |
| 7NM50       | 500V | 550mΩ                   | 26NM65Z-U3  | 650V | 140mΩ                   | 16NM90G2    | 900V  | 310mΩ                   |
| 10NM50      | 500V | 350mΩ                   | 38NM65Z     | 650V | 90mΩ                    | 50NM90-Q    | 900V  | 130mΩ                   |
| 22NM50      | 500V | 150mΩ                   | 75NM65-U3   | 650V | 50mΩ                    | 08NM95-Q    | 950V  | 14Ω                     |
| 30NM50      | 500V | 90mΩ                    | 02NM70      | 700V | 19.2Ω                   | 5NM95-Q     | 950V  | 2.3Ω                    |
| 60NM50      | 500V | 55mΩ                    | 5NM70Z-U2   | 700V | 1.5Ω                    | 9NM95-Q     | 950V  | 1.3Ω                    |
| 02NM60      | 600V | 17Ω                     | 8NM70A      | 700V | 700mΩ                   | 16NM95G2    | 950V  | 330mΩ                   |
| 5NM60-U2    | 600V | 1.15Ω                   | 18NM70Z-U3  | 700V | 300mΩ                   | 28NM95Z     | 950V  | 220mΩ                   |
| 9NM60Z      | 600V | 600mΩ                   | 26NM70Z-U3  | 700V | 180mΩ                   | 2NM100      | 1000V | 4.6Ω                    |
| 13NM60-U3   | 600V | 360mΩ                   | 33NM70Z-U3  | 700V | 140mΩ                   | 4NM100      | 1000V | 2.6Ω                    |
| 18NM60-U3   | 600V | 280mΩ                   | 75NM70      | 700V | 70mΩ                    | 10NM100     | 1000V | 900mΩ                   |
| 26NM60Z-U3  | 600V | 140mΩ                   | 1NM80-Q     | 800V | 4.3Ω                    | 18NM100Z    | 1000V | 450mΩ                   |
| 38NM60Z     | 600V | 85mΩ                    | 5NM80-Q     | 800V | 1.5Ω                    | 2NM120      | 1200V | 6.2Ω                    |
| 50NM60-U3   | 600V | 63mΩ                    | 8NM80A-Q    | 800V | 800mΩ                   | 5NM120      | 1200V | 2.1Ω                    |
| 75NM60      | 600V | 42mΩ                    | 15NM80-Q    | 800V | 480mΩ                   | 12NM120     | 1200V | 690mΩ                   |

*Note: Please refer to UTC catalog for complete portfolio.*

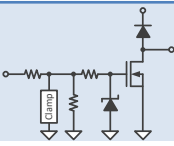
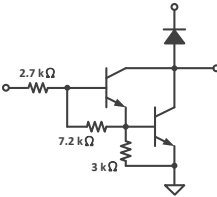
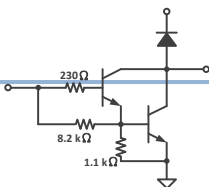
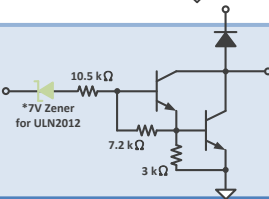
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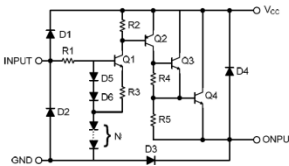
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# Darlington Driver Array

UTC provides various driver arrays in different power driving scenarios.

| Driver Block                                                                        | Ch# | Sinking Drv. | V <sub>CC</sub> | I <sub>OUT</sub> | V <sub>IH</sub> | Misc.                            |
|-------------------------------------------------------------------------------------|-----|--------------|-----------------|------------------|-----------------|----------------------------------|
|    | 7   | ULD2003*     | 50V             | 0.5A             | 2.5V            | DMOS array                       |
|                                                                                     | 7   | ULN2003Q     | 50V             | 0.5A             | 2.8V            | Standard Darlington array        |
|                                                                                     | 7   | ULN2003M     | 50V             | 0.5A             | 2.8V            | Low-V <sub>CE(SAT)</sub> version |
|                                                                                     | 7   | ULN2003R     | 50V             | 0.5A             | 2.8V            | Fault-proof version              |
|                                                                                     | 8   | ULN2803Q     | 50V             | 0.5A             | 2.8V            | Standard Darlington array        |
|                                                                                     | 3   | ULN2001      | 50V             | 0.5A             | 2.8V            |                                  |
|                                                                                     | 3   | ULN2001LC    | 50V             | 0.1A             | 2.8V            | Low-current version              |
|   | 4   | ULN202       | 50V             | 0.5A             | 2.8V            |                                  |
|                                                                                     | 4   | ULN202L05    | 50V             | 0.5A             | 2.8V            | 5V LDO integrated                |
|  | 4   | ULN62064     | 50V             | 1.5A             | 2.5V            | High-current application         |
|                                                                                     | 7   | ULN2004      | 50V             | 0.5A             | 6.2V            |                                  |
|                                                                                     | 8   | ULN2804      | 50V             | 0.5A             | 6.2V            |                                  |
|   | 7   | ULN2012      | 50V             | 0.6A             | 17V             |                                  |

| Driver Block                                                                        | Ch# | Sourcing Drv. | V <sub>CC</sub> | I <sub>OUT</sub> | V <sub>IL</sub> / V <sub>IH</sub> |
|-------------------------------------------------------------------------------------|-----|---------------|-----------------|------------------|-----------------------------------|
|  | 8   | 62783         | 50V             | 0.5A             | 0.8~2.0V                          |
|                                                                                     | 8   | 62784         | 50V             | 0.5A             | 2.0~4.5V                          |

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