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# FQP65N06

## N-Channel QFET® MOSFET

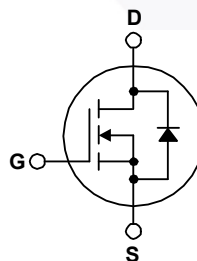
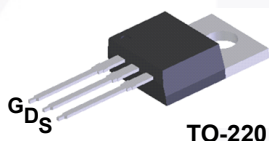
60 V, 65 A, 16 mΩ

### Description

This N-Channel enhancement mode power MOSFET is produced using Fairchild Semiconductor's proprietary planar stripe and DMOS technology. This advanced MOSFET technology has been especially tailored to reduce on-state resistance, and to provide superior switching performance and high avalanche energy strength. These devices are suitable for switched mode power supplies, audio amplifier, DC motor control, and variable switching power applications.

### Features

- 65 A, 60 V,  $R_{DS(on)} = 16 \text{ m}\Omega$  (Max.) @  $V_{GS} = 10 \text{ V}$ ,  $I_D = 32.5 \text{ A}$
- Low Gate Charge (Typ. 48 nC)
- Low  $C_{rss}$  (Typ. 100 pF)
- 100% Avalanche Tested
- 175°C Maximum Junction Temperature Rating



### Absolute Maximum Ratings

$T_C = 25^\circ\text{C}$  unless otherwise noted.

| Symbol         | Parameter                                                                                             | FQP65N06    | Unit                |
|----------------|-------------------------------------------------------------------------------------------------------|-------------|---------------------|
| $V_{DSS}$      | Drain-Source Voltage                                                                                  | 60          | V                   |
| $I_D$          | Drain Current - Continuous ( $T_C = 25^\circ\text{C}$ )<br>- Continuous ( $T_C = 100^\circ\text{C}$ ) | 65          | A                   |
|                |                                                                                                       | 46.1        | A                   |
| $I_{DM}$       | Drain Current - Pulsed (Note 1)                                                                       | 260         | A                   |
| $V_{GSS}$      | Gate-Source Voltage                                                                                   | $\pm 25$    | V                   |
| $E_{AS}$       | Single Pulsed Avalanche Energy (Note 2)                                                               | 650         | mJ                  |
| $I_{AR}$       | Avalanche Current (Note 1)                                                                            | 65          | A                   |
| $E_{AR}$       | Repetitive Avalanche Energy (Note 1)                                                                  | 15.0        | mJ                  |
| $dv/dt$        | Peak Diode Recovery $dv/dt$ (Note 3)                                                                  | 7.0         | V/ns                |
| $P_D$          | Power Dissipation ( $T_C = 25^\circ\text{C}$ )<br>- Derate above $25^\circ\text{C}$                   | 150         | W                   |
|                |                                                                                                       | 1.00        | W/ $^\circ\text{C}$ |
| $T_J, T_{STG}$ | Operating and Storage Temperature Range                                                               | -55 to +175 | $^\circ\text{C}$    |
| $T_L$          | Maximum Lead Temperature for Soldering,<br>1/8" from Case for 5 seconds                               | 300         | $^\circ\text{C}$    |

### Thermal Characteristics

| Symbol          | Parameter                                     | FQP65N06 | Unit               |
|-----------------|-----------------------------------------------|----------|--------------------|
| $R_{\theta JC}$ | Thermal Resistance, Junction-to-Case, Max.    | 1.00     | $^\circ\text{C/W}$ |
| $R_{\theta JA}$ | Thermal Resistance, Junction-to-Ambient, Max. | 62.5     | $^\circ\text{C/W}$ |

## Package Marking and Ordering Information

| Part Number | Top Mark | Package | Packing Method | Reel Size | Tape Width | Quantity |
|-------------|----------|---------|----------------|-----------|------------|----------|
| FQP65N06    | FQP65N06 | TO-220  | Tube           | N/A       | N/A        | 50 units |

## Electrical Characteristics

$T_C = 25^\circ\text{C}$  unless otherwise noted.

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Unit |
|--------|-----------|-----------------|-----|-----|-----|------|
|--------|-----------|-----------------|-----|-----|-----|------|

### Off Characteristics

|                                |                                           |                                                                   |    |      |      |                     |
|--------------------------------|-------------------------------------------|-------------------------------------------------------------------|----|------|------|---------------------|
| $BV_{DSS}$                     | Drain-Source Breakdown Voltage            | $V_{GS} = 0\text{ V}, I_D = 250\text{ }\mu\text{A}$               | 60 | --   | --   | V                   |
| $\Delta BV_{DSS} / \Delta T_J$ | Breakdown Voltage Temperature Coefficient | $I_D = 250\text{ }\mu\text{A}$ , Referenced to $25^\circ\text{C}$ | -- | 0.07 | --   | V/ $^\circ\text{C}$ |
| $I_{DSS}$                      | Zero Gate Voltage Drain Current           | $V_{DS} = 60\text{ V}, V_{GS} = 0\text{ V}$                       | -- | --   | 1    | $\mu\text{A}$       |
|                                |                                           | $V_{DS} = 48\text{ V}, T_C = 150^\circ\text{C}$                   | -- | --   | 10   | $\mu\text{A}$       |
| $I_{GSSF}$                     | Gate-Body Leakage Current, Forward        | $V_{GS} = 25\text{ V}, V_{DS} = 0\text{ V}$                       | -- | --   | 100  | nA                  |
| $I_{GSSR}$                     | Gate-Body Leakage Current, Reverse        | $V_{GS} = -25\text{ V}, V_{DS} = 0\text{ V}$                      | -- | --   | -100 | nA                  |

### On Characteristics

|              |                                   |                                                 |     |       |       |          |
|--------------|-----------------------------------|-------------------------------------------------|-----|-------|-------|----------|
| $V_{GS(th)}$ | Gate Threshold Voltage            | $V_{DS} = V_{GS}, I_D = 250\text{ }\mu\text{A}$ | 2.0 | --    | 4.0   | V        |
| $R_{DS(on)}$ | Static Drain-Source On-Resistance | $V_{GS} = 10\text{ V}, I_D = 32.5\text{ A}$     | --  | 0.012 | 0.016 | $\Omega$ |
| $g_{FS}$     | Forward Transconductance          | $V_{DS} = 25\text{ V}, I_D = 32.5\text{ A}$     | --  | 48    | --    | S        |

### Dynamic Characteristics

|           |                              |                                                                      |    |      |      |    |
|-----------|------------------------------|----------------------------------------------------------------------|----|------|------|----|
| $C_{iss}$ | Input Capacitance            | $V_{DS} = 25\text{ V}, V_{GS} = 0\text{ V},$<br>$f = 1.0\text{ MHz}$ | -- | 1850 | 2410 | pF |
| $C_{oss}$ | Output Capacitance           |                                                                      | -- | 700  | 910  | pF |
| $C_{rss}$ | Reverse Transfer Capacitance |                                                                      | -- | 100  | 130  | pF |

### Switching Characteristics

|              |                     |                                                                          |    |      |     |    |
|--------------|---------------------|--------------------------------------------------------------------------|----|------|-----|----|
| $t_{d(on)}$  | Turn-On Delay Time  | $V_{DD} = 30\text{ V}, I_D = 32.5\text{ A},$<br>$R_G = 25\text{ }\Omega$ | -- | 20   | 50  | ns |
| $t_r$        | Turn-On Rise Time   |                                                                          | -- | 160  | 330 | ns |
| $t_{d(off)}$ | Turn-Off Delay Time |                                                                          | -- | 90   | 190 | ns |
| $t_f$        | Turn-Off Fall Time  |                                                                          | -- | 105  | 220 | ns |
| $Q_g$        | Total Gate Charge   | $V_{DS} = 48\text{ V}, I_D = 65\text{ A},$<br>$V_{GS} = 10\text{ V}$     | -- | 48   | 65  | nC |
| $Q_{gs}$     | Gate-Source Charge  |                                                                          | -- | 12   | --  | nC |
| $Q_{gd}$     | Gate-Drain Charge   |                                                                          | -- | 19.5 | --  | nC |

### Drain-Source Diode Characteristics and Maximum Ratings

|                 |                                                       |                                                                                  |    |     |     |    |
|-----------------|-------------------------------------------------------|----------------------------------------------------------------------------------|----|-----|-----|----|
| I <sub>S</sub>  | Maximum Continuous Drain-Source Diode Forward Current |                                                                                  | -- | --  | 65  | A  |
| I <sub>SM</sub> | Maximum Pulsed Drain-Source Diode Forward Current     |                                                                                  | -- | --  | 260 | A  |
| V <sub>SD</sub> | Drain-Source Diode Forward Voltage                    | V <sub>GS</sub> = 0 V, I <sub>S</sub> = 65 A                                     | -- | --  | 1.5 | V  |
| t <sub>rr</sub> | Reverse Recovery Time                                 | V <sub>GS</sub> = 0 V, I <sub>S</sub> = 65 A,<br>dI <sub>F</sub> / dt = 100 A/μs | -- | 62  | --  | ns |
| Q <sub>rr</sub> | Reverse Recovery Charge                               |                                                                                  | -- | 110 | --  | nC |

#### Notes:

1. Repetitive Rating : Pulse width limited by maximum junction temperature.
2.  $L = 180\text{ }\mu\text{H}$ ,  $I_{AS} = 65\text{ A}$ ,  $V_{DD} = 25\text{ V}$ ,  $R_G = 25\text{ }\Omega$ , starting  $T_J = 25^\circ\text{C}$ .
3.  $I_{SD} \leq 65\text{ A}$ ,  $dI/dt \leq 300\text{ A}/\mu\text{s}$ ,  $V_{DD} \leq BV_{DSS}$ , starting  $T_J = 25^\circ\text{C}$ .
4. Essentially Independent of Operating Temperature.

## Typical Characteristics

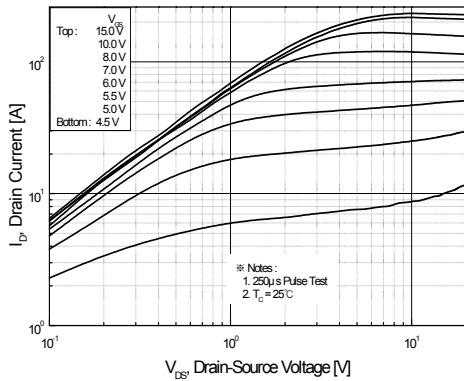


Figure 1. On-Region Characteristics

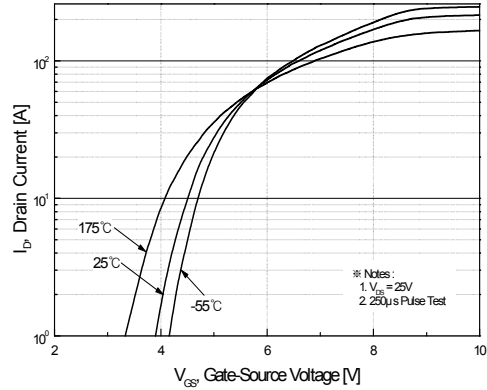


Figure 2. Transfer Characteristics

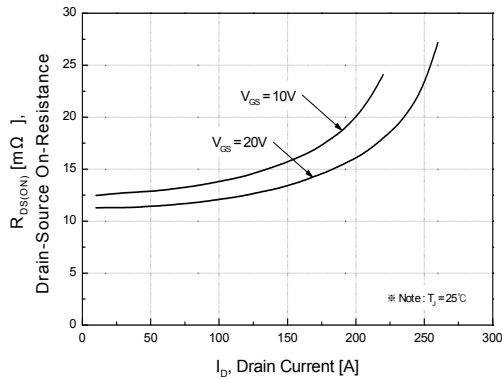


Figure 3. On-Resistance Variation vs. Drain Current and Gate Voltage

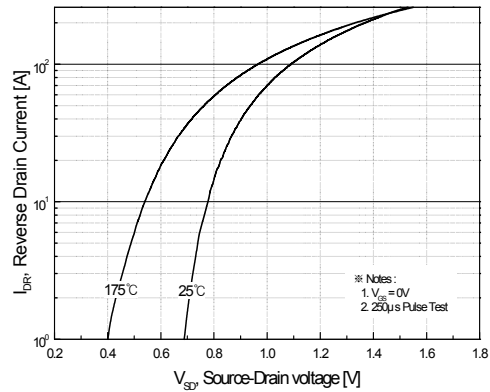


Figure 4. Body Diode Forward Voltage Variation vs. Source Current and Temperature

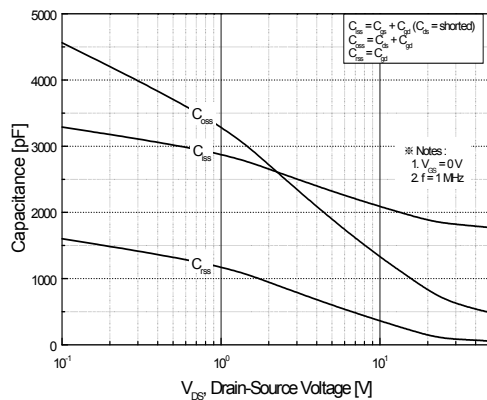


Figure 5. Capacitance Characteristics

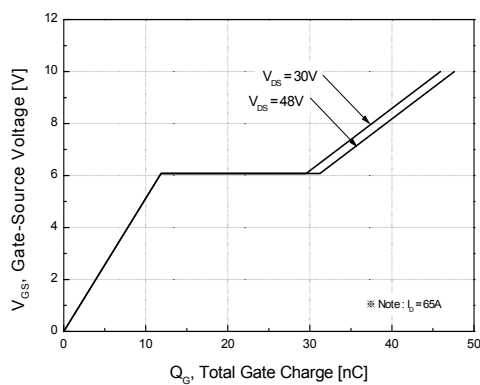
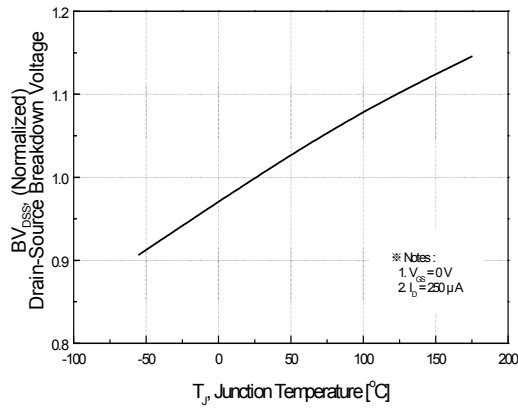
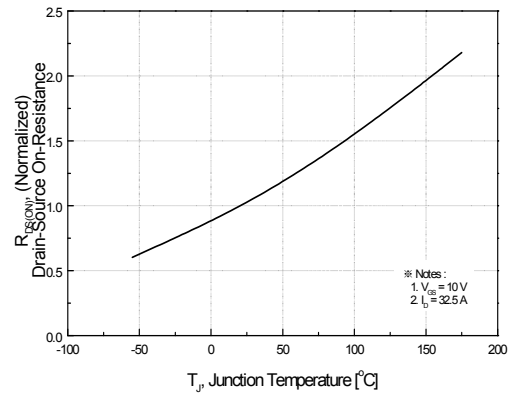


Figure 6. Gate Charge Characteristics

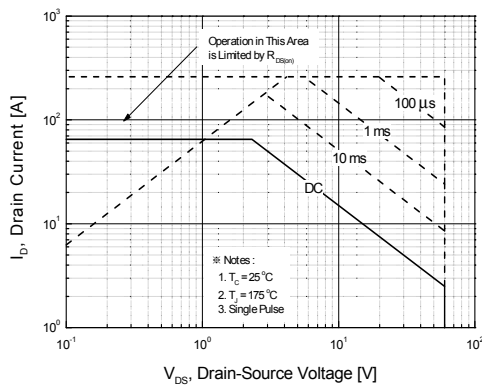
## Typical Characteristics (continued)



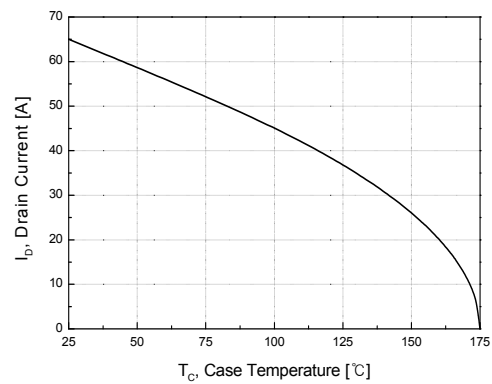
**Figure 7. Breakdown Voltage Variation vs. Temperature**



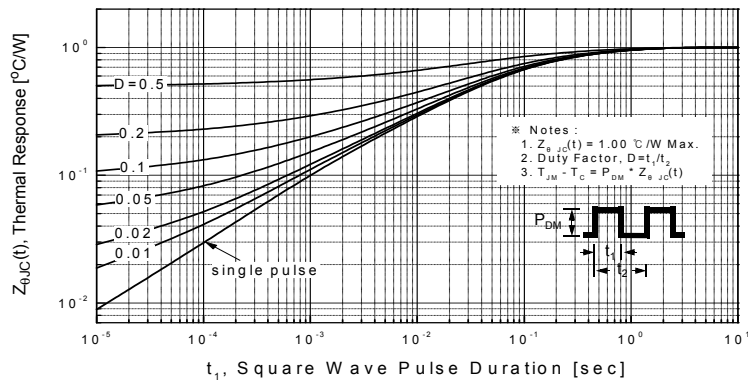
**Figure 8. On-Resistance Variation vs. Temperature**



**Figure 9. Maximum Safe Operating Area**



**Figure 10. Maximum Drain Current vs. Case Temperature**



**Figure 11. Transient Thermal Response Curve**



Figure 12. Gate Charge Test Circuit & Waveform



Figure 13. Resistive Switching Test Circuit & Waveforms

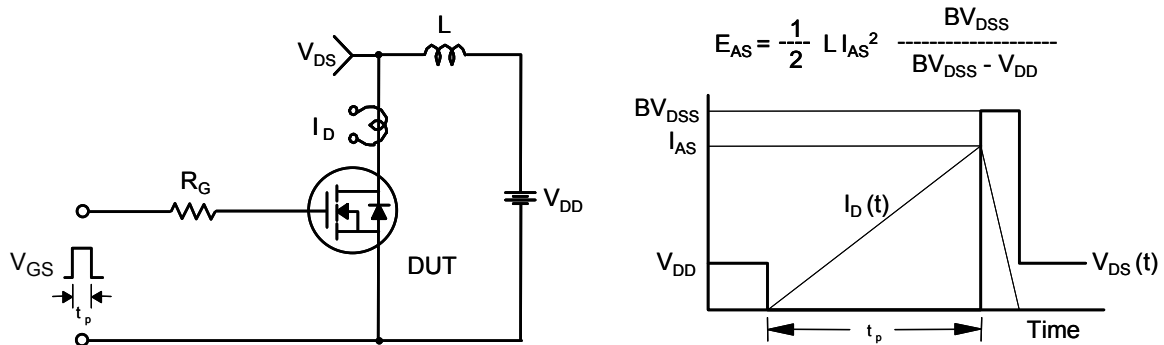


Figure 14. Unclamped Inductive Switching Test Circuit & Waveforms



Figure 15. Peak Diode Recovery  $dv/dt$  Test Circuit & Waveforms

## Mechanical Dimensions

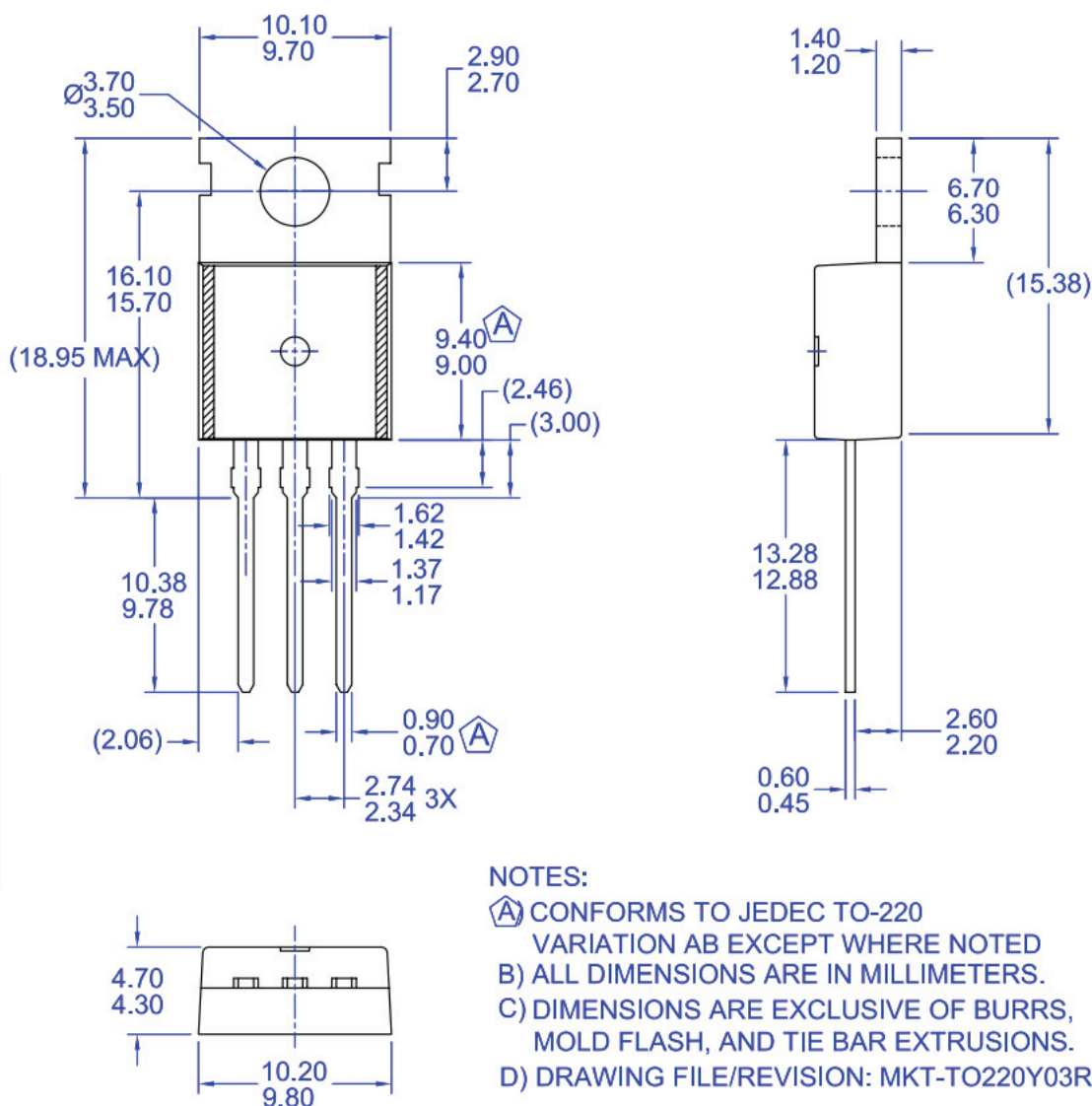


Figure 16. TO220, Molded, 3-Lead, Jedec Variation AB

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