## FAIROHILD



Absolute Maximum Ratings $T_{A}=25^{\circ} \mathrm{C}$ unless othemise noted

| Symbol | Parameter |  | Q1 | Q2 | Units |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $V_{\text {DS }}$ | Drain-Source Voltage |  | 20 | -20 | V |
| $V_{G S}$ | Gate-Source Voltage |  | $\pm 12$ | $\pm 12$ | V |
| ID | Drain Current - Continuous <br>  - Pulsed | (Note 1a) | 3.7 | -3.1 | A |
|  |  |  | 6 | -6 |  |
| $P_{\text {D }}$ | Power Dissipation for Single Operation | (Note 1a) | 1.4 |  | W |
|  |  | (Note 1b) |  |  |  |
| $\mathrm{T}_{\mathrm{J},} \mathrm{T}_{\text {stg }}$ | Operating and Storage Junction Temperature Range |  | -55 to +150 |  | ${ }^{\circ} \mathrm{C}$ |

Thermal Characteristics

| $\mathrm{R}_{\theta J A}$ | Thermal Resistance, Junction-to-Ambient | (Note 1a) | 86 (Single Operation) |
| :--- | :--- | :--- | :---: | :---: |
| $\mathrm{R}_{\theta J A}$ | Thermal Resistance, Junction-to-Ambient | (Note 1b) | 173 (Single Operation) |
| $\mathrm{R}_{\theta J A}$ | Thermal Resistance, Junction-to-Ambient | (Note 1c) | 69 (Dual Operation) |
| $\mathrm{R}_{\theta J A}$ | Thermal Resistance, Junction-to-Ambient | (Note 1d) | 151 (Dual Operation) |

Package Marking and Ordering Information

| Device Marking | Device | Reel Size | Tape width | Quantity |
| :---: | :---: | :---: | :---: | :---: |
| 032 | FDMA1032CZ | $7^{\prime \prime}$ | 8 mm | 3000 units |


| Electrical Characteristics |  | $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$ unless otherwise noted |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Symbol | Parameter | Test Conditions | Type | Min | Typ | Max | Units |
| Off Characteristics |  |  |  |  |  |  |  |
| $\mathrm{BV}_{\text {DSS }}$ | Drain-Source Breakdown Voltage | $\begin{array}{ll} \hline V_{G S}=0 \mathrm{~V}, & I_{D}=250 \mu \mathrm{~A} \\ \mathrm{~V}_{\mathrm{GS}}=0 \mathrm{~V}, & \mathrm{I}_{\mathrm{D}}=-250 \mu \mathrm{~A} \end{array}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ | $\begin{gathered} 20 \\ -20 \end{gathered}$ |  |  | V |
| $\frac{\Delta \mathrm{B} V_{\mathrm{DSS}}}{\Delta \mathrm{~T}_{\mathrm{J}}}$ | Breakdown Voltage Temperature Coefficient | $\mathrm{I}_{\mathrm{D}}=250 \mu \mathrm{~A}$, Referenced to $25^{\circ} \mathrm{C}$ $\mathrm{I}_{\mathrm{D}}=-250 \mu \mathrm{~A}$, Referenced to $25^{\circ} \mathrm{C}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ |  | $\begin{gathered} \hline 15 \\ -12 \end{gathered}$ |  | $\mathrm{mV} /{ }^{\circ} \mathrm{C}$ |
| $\mathrm{l}_{\text {DSs }}$ | Zero Gate Voltage Drain Current | $\begin{array}{ll} \hline V_{D S}=16 \mathrm{~V}, & \mathrm{~V}_{\mathrm{GS}}=0 \mathrm{~V} \\ \mathrm{~V}_{\mathrm{DS}}=-16 \mathrm{~V}, & \mathrm{~V}_{\mathrm{GS}}=0 \mathrm{~V} \\ \hline \end{array}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \\ & \hline \end{aligned}$ |  |  | $\begin{gathered} \hline 1 \\ -1 \end{gathered}$ | $\mu \mathrm{A}$ |
| $I_{\text {gss }}$ | Gate-Body Leakage | $\mathrm{V}_{\mathrm{GS}}= \pm 12 \mathrm{~V}, \quad \mathrm{~V}_{\mathrm{DS}}=0 \mathrm{~V}$ | All |  |  | $\pm 10$ | $\mu \mathrm{A}$ |
| On Characteristics (Note 2) |  |  |  |  |  |  |  |
| $\mathrm{V}_{\mathrm{GS}(\mathrm{th})}$ | Gate Threshold Voltage | $\begin{array}{ll} \mathrm{V}_{\mathrm{DS}}=\mathrm{V}_{G S}, & \mathrm{I}_{\mathrm{D}}=250 \mu \mathrm{~A} \\ \mathrm{~V}_{\mathrm{DS}}=\mathrm{V}_{\mathrm{GS}}, & \mathrm{I}_{\mathrm{D}}=-250 \mu \mathrm{~A} \\ \hline \end{array}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ | $\begin{array}{c\|} \hline 0.6 \\ -0.6 \\ \hline \end{array}$ | $\begin{gathered} \hline 1.0 \\ -1.0 \end{gathered}$ | $\begin{gathered} 1.5 \\ -1.5 \end{gathered}$ | V |
| $\begin{gathered} \Delta \mathrm{V}_{\mathrm{GS}(\mathrm{th})} \\ \Delta \mathrm{T}_{\mathrm{J}} \\ \hline \end{gathered}$ | Gate Threshold Voltage Temperature Coefficient | $\begin{aligned} & \mathrm{I}_{\mathrm{D}}=250 \mu \mathrm{~A}, \text { Referenced to } 25^{\circ} \mathrm{C} \\ & \mathrm{I}_{\mathrm{D}}=-250 \mu \mathrm{~A}, \text { Referenced to } 25^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ |  | $\begin{gathered} \hline-4 \\ 4 \\ \hline \end{gathered}$ |  | $\mathrm{mV} /{ }^{\circ} \mathrm{C}$ |
| $\mathrm{R}_{\mathrm{DS} \text { (on) }}$ | Static Drain-Source On-Resistance | $\begin{array}{ll} \mathrm{V}_{G S}=4.5 \mathrm{~V}, \quad \mathrm{I}_{\mathrm{D}}=3.7 \mathrm{~A} \\ \mathrm{~V}_{\mathrm{GS}}=2.5 \mathrm{~V}, \quad \mathrm{I}_{\mathrm{D}}=3.3 \mathrm{~A} \\ \mathrm{~V}_{\mathrm{GS}}=4.5 \mathrm{~V}, \quad \mathrm{I}_{\mathrm{D}}=3.7 \mathrm{~A}, \mathrm{~T}_{\mathrm{J}}=125^{\circ} \mathrm{C} \end{array}$ | Q1 |  | $\begin{aligned} & 37 \\ & 50 \\ & 53 \end{aligned}$ | $\begin{aligned} & \hline 68 \\ & 86 \\ & 90 \\ & \hline \end{aligned}$ | $\mathrm{m} \Omega$ |
|  |  | $\begin{aligned} & \mathrm{V}_{\mathrm{GS}}=-4.5 \mathrm{~V}, \quad \mathrm{I}_{\mathrm{D}}=-3.1 \mathrm{~A} \\ & \mathrm{~V}_{\mathrm{GS}}=-2.5 \mathrm{~V}, \quad \mathrm{I}_{\mathrm{D}}=-2.5 \mathrm{~A} \\ & \mathrm{~V}_{\mathrm{GS}}=-4.5 \mathrm{~V}, \quad \mathrm{I}_{\mathrm{D}}=-3.1 \mathrm{~A}, \mathrm{~T}_{\mathrm{J}}=125^{\circ} \mathrm{C} \end{aligned}$ | Q2 |  | $\begin{aligned} & 60 \\ & 88 \\ & 87 \end{aligned}$ | $\begin{gathered} \hline 95 \\ 141 \\ 140 \end{gathered}$ | $\mathrm{m} \Omega$ |
| $\overline{\mathrm{g} \text { FS }}$ | Forward Transconductance | $\mathrm{V}_{\mathrm{DS}}=10 \mathrm{~V}$, $\mathrm{I}_{\mathrm{D}}=3.7 \mathrm{~A}$ <br> $\mathrm{~V}_{\mathrm{DS}}=-10 \mathrm{~V}$, $\mathrm{I}_{\mathrm{D}}=-3.1 \mathrm{~A}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ |  | $\begin{gathered} 16 \\ -11 \\ \hline \end{gathered}$ |  | S |
| Dynamic Characteristics |  |  |  |  |  |  |  |
| $\mathrm{C}_{\text {iss }}$ | Input Capacitance | $\begin{aligned} & \text { Q1 } \\ & V_{\mathrm{DS}}=10 \mathrm{~V}, \mathrm{~V}_{\mathrm{GS}}=0 \mathrm{~V}, \mathrm{f}=1.0 \mathrm{MHz} \\ & \mathrm{Q}^{2} \\ & \mathrm{~V}_{\mathrm{DS}}=-10 \mathrm{~V}, \mathrm{~V}_{\mathrm{GS}}=0 \mathrm{~V}, \mathrm{f}=1.0 \mathrm{MHz} \end{aligned}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ |  | $\begin{array}{r} 340 \\ 540 \\ \hline \end{array}$ |  | pF |
| $\mathrm{C}_{\text {oss }}$ | Output Capacitance | $\begin{aligned} & \text { Q2 } \\ & V_{D S}=-10 \mathrm{~V}, \mathrm{~V}_{\mathrm{GS}}=0 \mathrm{~V}, \mathrm{f}=1.0 \mathrm{MHz} \end{aligned}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ |  | $\begin{gathered} 80 \\ 120 \end{gathered}$ |  | pF |
| $\overline{\mathrm{C}_{\text {rss }}}$ | Reverse Transfer Capacitance |  | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ |  | $\begin{gathered} 60 \\ 100 \\ \hline \end{gathered}$ |  | pF |
| Switching Characteristics (Note 2) |  |  |  |  |  |  |  |
| $\mathrm{t}_{\text {d(on) }}$ | Turn-On Delay Time | Q1 $V_{D D}=10 \mathrm{~V}, \mathrm{I}_{\mathrm{D}}=1 \mathrm{~A},$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ |  | $\begin{gathered} \hline 8 \\ 13 \\ \hline \end{gathered}$ | $\begin{array}{r} 16 \\ 24 \\ \hline \end{array}$ | ns |
| $\mathrm{t}_{\mathrm{r}}$ | Turn-On Rise Time | $\mathrm{V}_{\mathrm{GS}}=4.5 \mathrm{~V}, \mathrm{R}_{\mathrm{GEN}}=6 \Omega$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ |  | $\begin{gathered} \hline 8 \\ 11 \\ \hline \end{gathered}$ | $\begin{aligned} & 16 \\ & 20 \\ & \hline \end{aligned}$ | ns |
| $\overline{t_{\text {d(off) }}}$ | Turn-Off Delay Time | $\begin{aligned} & \mathrm{Q} 2 \\ & \mathrm{~V}_{\mathrm{DD}}=-10 \mathrm{~V}, \mathrm{I}_{\mathrm{D}}=-1 \mathrm{~A}, \\ & \mathrm{~V}_{\mathrm{GS}}=-4.5 \mathrm{~V}, \mathrm{R}_{\mathrm{GEN}}=6 \Omega \end{aligned}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \\ & \hline \end{aligned}$ |  | $\begin{aligned} & 14 \\ & 37 \\ & \hline \end{aligned}$ | $\begin{aligned} & 26 \\ & 59 \\ & \hline \end{aligned}$ | ns |
| $\mathrm{t}_{\mathrm{f}}$ | Turn-Off Fall Time |  | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \\ & \hline \end{aligned}$ |  | $\begin{gathered} \hline 3 \\ 36 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 6 \\ 58 \\ \hline \end{gathered}$ | ns |
| $\mathrm{Q}_{\mathrm{g}}$ | Total Gate Charge | $\begin{aligned} & \mathrm{Q} 1 \\ & \mathrm{~V}_{\mathrm{DS}}=10 \mathrm{~V}, \mathrm{I}_{\mathrm{D}}=3.7 \mathrm{~A}, \mathrm{~V}_{\mathrm{GS}}=4.5 \mathrm{~V} \\ & \mathrm{Q} 2 \\ & \mathrm{~V}_{\mathrm{DS}}=-10 \mathrm{~V}, \mathrm{I}_{\mathrm{D}}=-3.1 \mathrm{~A}, \\ & \mathrm{~V}_{\mathrm{GS}}=-4.5 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \\ & \hline \end{aligned}$ |  | $\begin{aligned} & \hline 4 \\ & 7 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 6 \\ 10 \\ \hline \end{gathered}$ | nC |
| $\mathrm{Q}_{\mathrm{gs}}$ | Gate-Source Charge |  | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \\ & \hline \end{aligned}$ |  | $\begin{aligned} & 0.7 \\ & 1.1 \end{aligned}$ |  | nC |
| $\overline{Q_{g d}}$ | Gate-Drain Charge |  | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ |  | $\begin{array}{r} \hline 1.1 \\ 2.4 \\ \hline \end{array}$ |  | nC |


| Electrical Characteristics |  | $T_{A}=25^{\circ} \mathrm{C}$ unless otherwise noted |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Symbol | Parameter | Test Condit |  | Type | Min | Typ | Max | Units |
| Drain-Source Diode Characteristics and Maximum Ratings |  |  |  |  |  |  |  |  |
| $\mathrm{I}_{\mathrm{s}}$ | Maximum Continuous Source-Drain Diode Forward Current |  |  | $\begin{aligned} & \hline \text { Q1 } \\ & \text { Q2 } \\ & \hline \end{aligned}$ |  |  | $\begin{array}{\|r\|} \hline 1.1 \\ -1.1 \end{array}$ | A |
| $\mathrm{V}_{\text {SD }}$ | Source-Drain Diode Forward Voltage | $\begin{aligned} & V_{G S}=0 \mathrm{~V}, \mathrm{I}_{\mathrm{S}}=1.1 \mathrm{~A} \\ & \mathrm{~V}_{\mathrm{GS}}=0 \mathrm{~V}, \mathrm{I}_{\mathrm{S}}=-1.1 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \text { (Note 2) } \\ & \text { (Note 2) } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \end{aligned}$ |  | $\begin{gathered} \hline 0.7 \\ -0.8 \\ \hline \end{gathered}$ | $\begin{gathered} 1.2 \\ -1.2 \end{gathered}$ | V |
| $\mathrm{t}_{\pi}$ | Diode Reverse Recovery Time | $\begin{aligned} & \text { Q1 } \\ & \mathrm{I}_{\mathrm{F}}=3.7 \mathrm{~A}, \mathrm{dI}_{\mathrm{F}} / \mathrm{dt}=100 \mathrm{~A} / \mu \mathrm{s} \\ & \mathrm{Q} 2 \\ & \mathrm{I}_{\mathrm{F}}=-3.1 \mathrm{~A}, \mathrm{dI}_{\mathrm{F}} / \mathrm{dt}=100 \mathrm{~A} / \mu \mathrm{s} \end{aligned}$ |  | $\begin{aligned} & \text { Q1 } \\ & \text { Q2 } \\ & \hline \end{aligned}$ |  | $\begin{aligned} & 11 \\ & 25 \end{aligned}$ |  | ns |
| $\overline{\mathrm{Q}_{\text {r }}}$ | Diode Reverse Recovery Charge |  |  | $\begin{aligned} & \text { Q1 } \\ & \hline \text { Q2 } \\ & \text { Q } \end{aligned}$ |  | 2 9 |  | nC |

Notes:

1. $R_{\theta J A}$ is determined with the device mounted on a $1 \mathrm{in}^{2}$ oz. copper pad on a $1.5 \times 1.5 \mathrm{in}$. board of FR-4 material. $R_{\theta J C}$ is guaranteed by design while $R_{\theta J A}$ is determined by the user's board design.
(a) $R_{\theta J A}=86^{\circ} \mathrm{C} / \mathrm{W}$ when mounted on a $1 \mathrm{in}^{2}$ pad of 2 oz copper, $1.5^{\prime \prime} \times 1.5^{\prime \prime} \times 0.062$ "thick PCB. For single operation.
(b) $R_{\theta J A}=173^{\circ} \mathrm{C} / \mathrm{W}$ when mounted on a minimum pad of 2 oz copper. For single operation.
(c) $R_{\theta J A}=69^{\circ} \mathrm{C} / \mathrm{W}$ when mounted on a $1 \mathrm{in}^{2}$ pad of 2 oz copper, $1.5^{\prime \prime} \times 1.5^{\prime \prime} \times 0.062$ " thick PCB. For dual operation
(d) $R_{\theta J A}=151^{\circ} \mathrm{C} / \mathrm{W}$ when mounted on a minimum pad of 2 oz copper. For dual operation.

2. Pulse Test : Pulse Width < 300 us, Duty Cycle < 2.0\%
3. The diode connected between the gate and source serves only as protection against ESD. No gate overvoltage rating is implied.


Figure 1. On-Region Characteristics.


Figure 3. On-Resistance Variation with Temperature.


Figure 5. Transfer Characteristics.


Figure 2. On-Resistance Variation with Drain Current and Gate Voltage.


Figure 4. On-Resistance Variation with Gate-to-Source Voltage.


Figure 6. Body Diode Forward Voltage Variation with Source Current and Temperature.

## Typical Characteristics Q1 (N-Channel)



Figure 7. Gate Charge Characteristics.


Figure 9. Maximum Safe Operating Area.


Figure 8. Capacitance Characteristics.


Figure 10. Single Pulse Maximum Power Dissipation.


Figure 11. Transient Thermal Response Curve.
Thermal characterization performed using the conditions described in Note 1b.
Transient thermal response will change depending on the circuit board design.

## Typical Characteristics: Q2 (P-Channel)



Figure 12. On-Region Characteristics.


Figure 14. On-Resistance Variation with Temperature.


Figure 16. Transfer Characteristics.


Figure 13. On-Resistance Variation with Drain Current and Gate Voltage.


Figure 15. On-Resistance Variation with Gate-to-Source Voltage.


Figure 17. Body Diode Forward Voltage Variation with Source Current and Temperature.

## Typical Characteristics: Q2 (P-Channel)



Figure 18. Gate Charge Characteristics.


Figure 20. Maximum Safe Operating Area.


Figure 19. Capacitance Characteristics.


Figure 21. Single Pulse Maximum Power Dissipation.


Figure 22. Transient Thermal Response Curve.
Thermal characterization performed using the conditions described in Note 1c.
Transient thermal response will change depending on the circuit board design.

## Dimensional Outline and Pad Layout



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