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KA5x03xx-SERIES

KA5H0365R, KA5M0365R, KA5L0365R

KA5H0380R, KA5M0380R, KA5L0380R

Fairchild Power Switch(FPS)

Features

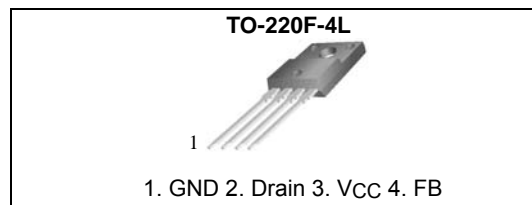
- Precision Fixed Operating Frequency (100/67/50kHz)
- Low Start-up Current(Typ. 100uA)
- Pulse by Pulse Current Limiting
- Over Current Protection
- Over Voltage Protection (Min. 25V)
- Internal Thermal Shutdown Function
- Under Voltage Lockout
- Internal High Voltage Sense FET
- Auto-Restart Mode

Applications

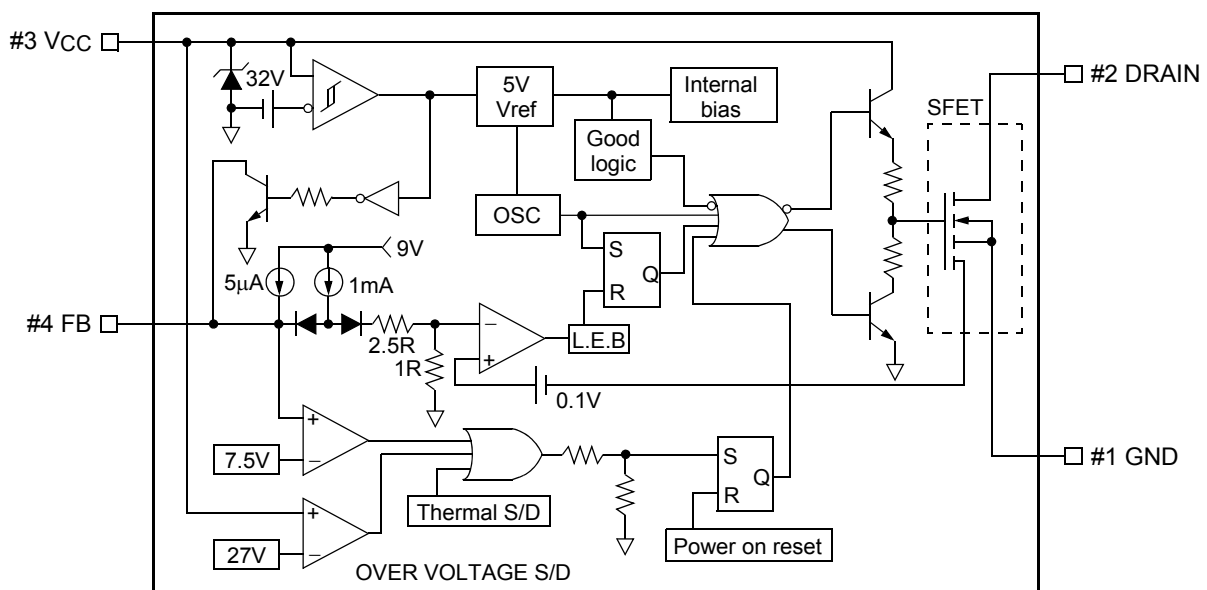
- SMPS for VCR, SVR, STB, DVD & DVCD
- SMPS for Printer, Facsimile & Scanner
- Adaptor for Camcorder

Description

The Fairchild Power Switch(FPS) product family is specially designed for an off-line SMPS with minimal external components. The Fairchild Power Switch(FPS) consists of a high voltage power SenseFET and a current mode PWM IC. Included PWM controller integrates the fixed frequency oscillator, the under voltage lock-out, the leading edge blanking, the optimized gate turn-on/turn-off driver, the thermal shutdown protection, the over voltage protection, and the temperature compensated precision current sources for the loop compensation and the fault protection circuitry. Compared to a discrete MOSFET and a PWM controller or an RCC solution, a Fairchild Power Switch(FPS) can reduce the total component count, design size and weight and at the same time increase efficiency, productivity, and system reliability. It has a basic platform well suited for the cost effective design in either a flyback converter or a forward converter



Internal Block Diagram



Rev.1.0.7

Absolute Maximum Ratings

(Ta=25°C, unless otherwise specified)

| Characteristic | Symbol | Value | Unit |
|--|---------------------|-------------------------|------|
| KA5H0365R, KA5M0365R, KA5L0365R | | | |
| Drain-Gate Voltage (R _{GS} =1MΩ) | V _{DGR} | 650 | V |
| Gate-Source (GND) Voltage | V _{GS} | ±30 | V |
| Drain Current Pulsed ⁽¹⁾ | I _{DM} | 12.0 | ADC |
| Continuous Drain Current (T _C =25°C) | I _D | 3.0 | ADC |
| Continuous Drain Current (T _C =100°C) | I _D | 2.4 | ADC |
| Single Pulsed Avalanche Energy ⁽²⁾ | E _{AS} | 358 | mJ |
| Maximum Supply Voltage | V _{CC,MAX} | 30 | V |
| Analog Input Voltage Range | V _{FB} | -0.3 to V _{SD} | V |
| Total Power Dissipation | P _D | 75 | W |
| | Derating | 0.6 | W/°C |
| Operating Junction Temperature. | T _J | +150 | °C |
| Operating Ambient Temperature. | T _A | -40 to +85 | °C |
| Storage Temperature Range. | T _{STG} | -55 to +150 | °C |
| KA5H0380R, KA5M0380R, KA5L0380R | | | |
| Drain-Gate Voltage (R _{GS} =1MΩ) | V _{DGR} | 800 | V |
| Gate-Source (GND) Voltage | V _{GS} | ±30 | V |
| Drain Current Pulsed ⁽¹⁾ | I _{DM} | 12.0 | ADC |
| Continuous Drain Current (T _C =25°C) | I _D | 3.0 | ADC |
| Continuous Drain Current (T _C =100°C) | I _D | 2.1 | ADC |
| Single Pulsed Avalanche Energy ⁽²⁾ | E _{AS} | 95 | mJ |
| Maximum Supply Voltage | V _{CC,MAX} | 30 | V |
| Analog Input Voltage Range | V _{FB} | -0.3 to V _{SD} | V |
| Total Power Dissipation | P _D | 75 | W |
| | Derating | 0.6 | W/°C |
| Operating Junction Temperature. | T _J | +150 | °C |
| Operating Ambient Temperature. | T _A | -40 to +85 | °C |
| Storage Temperature Range. | T _{STG} | -55 to +150 | °C |

Note:

1. Repetitive rating: Pulse width limited by maximum junction temperature
2. L = 51mH, starting T_J = 25°C
3. L = 13μH, starting T_J = 25°C

Electrical Characteristics (SenseFET Part)

(Ta = 25°C unless otherwise specified)

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---------|--|------|------|------|------|
| KA5H0365R, KA5M0365R, KA5L0365R | | | | | | |
| Drain-Source Breakdown Voltage | BVDSS | VGS=0V, ID=50μA | 650 | - | - | V |
| Zero Gate Voltage Drain Current | IDSS | VDS=Max. Rating, VGS=0V | - | - | 50 | μA |
| | | VDS=0.8Max. Rating, VGS=0V, TC=125°C | - | - | 200 | μA |
| Static Drain-Source on Resistance ^(Note) | RDS(ON) | VGS=10V, ID=0.5A | - | 3.6 | 4.5 | Ω |
| Forward Transconductance ^(Note) | gfs | VDS=50V, ID=0.5A | 2.0 | - | - | S |
| Input Capacitance | Ciss | VGS=0V, VDS=25V, f=1MHz | - | 720 | - | pF |
| Output Capacitance | Coss | | - | 40 | - | |
| Reverse Transfer Capacitance | Crss | | - | 40 | - | |
| Turn On Delay Time | td(on) | VDD=0.5BVDSS, ID=1.0A (MOSFET switching time is essentially independent of operating temperature) | - | 150 | - | nS |
| Rise Time | tr | | - | 100 | - | |
| Turn Off Delay Time | td(off) | | - | 150 | - | |
| Fall Time | tf | | - | 42 | - | |
| Total Gate Charge (Gate-Source+Gate-Drain) | Qg | VGS=10V, ID=1.0A, VDS=0.5BVDSS (MOSFET switching time is essentially independent of operating temperature) | - | - | 34 | nC |
| Gate-Source Charge | Qgs | | - | 7.3 | - | |
| Gate-Drain (Miller) Charge | Qgd | | - | 13.3 | - | |
| KA5H0380R, KA5M0380R, KA5L0380R | | | | | | |
| Drain-Source Breakdown Voltage | BVDSS | VGS=0V, ID=50μA | 800 | - | - | V |
| Zero Gate Voltage Drain Current | IDSS | VDS=Max. Rating, VGS=0V | - | - | 250 | μA |
| | | VDS=0.8Max. Rating, VGS=0V, TC=125°C | - | - | 1000 | μA |
| Static Drain-Source on Resistance ^(Note) | RDS(ON) | VGS=10V, ID=0.5A | - | 4.0 | 5.0 | Ω |
| Forward Transconductance ^(Note) | gfs | VDS=50V, ID=0.5A | 1.5 | 2.5 | - | S |
| Input Capacitance | Ciss | VGS=0V, VDS=25V, f=1MHz | - | 779 | - | pF |
| Output Capacitance | Coss | | - | 75.6 | - | |
| Reverse Transfer Capacitance | Crss | | - | 24.9 | - | |
| Turn On Delay Time | td(on) | VDD=0.5BVDSS, ID=1.0A (MOSFET switching time is essentially independent of operating temperature) | - | 40 | - | nS |
| Rise Time | tr | | - | 95 | - | |
| Turn Off Delay Time | td(off) | | - | 150 | - | |
| Fall Time | tf | | - | 60 | - | |
| Total Gate Charge (Gate-Source+Gate-Drain) | Qg | VGS=10V, ID=1.0A, VDS=0.5BVDSS (MOSFET switching time is essentially independent of operating temperature) | - | - | 34 | nC |
| Gate-Source Charge | Qgs | | - | 7.2 | - | |
| Gate-Drain (Miller) Charge | Qgd | | - | 12.1 | - | |

Note:

1. Pulse test: Pulse width ≤ 300μs, duty ≤ 2%

2. $S = \frac{1}{R}$

Electrical Characteristics (Control Part) (Continued)

(Ta = 25°C unless otherwise specified)

| Characteristic | Symbol | Test condition | Min. | Typ. | Max. | Unit |
|--|--------------------|--|------|------|------|-------|
| UVLO SECTION | | | | | | |
| Start Threshold Voltage | VSTART | VFB=GND | 14 | 15 | 16 | V |
| Stop Threshold Voltage | VSTOP | VFB=GND | 8.4 | 9 | 9.6 | V |
| OSCILLATOR SECTION | | | | | | |
| Initial Accuracy | FOSC | KA5H0365R KA5H0380R | 90 | 100 | 110 | kHz |
| Initial Accuracy | FOSC | KA5M0365R KA5M0380R | 61 | 67 | 73 | kHz |
| Initial Accuracy | FOSC | KA5L0365R KA5L0380R | 45 | 50 | 55 | kHz |
| Frequency Change With Temperature ⁽²⁾ | - | -25°C≤Ta≤+85°C | - | ±5 | ±10 | % |
| Maximum Duty Cycle | Dmax | KA5H0365R KA5H0380R | 62 | 67 | 72 | % |
| Maximum Duty Cycle | Dmax | KA5M0365R KA5M0380R KA5L0365R KA5L0380R | 72 | 77 | 82 | % |
| FEEDBACK SECTION | | | | | | |
| Feedback Source Current | IFB | Ta=25°C, 0V≤Vfb≤3V | 0.7 | 0.9 | 1.1 | mA |
| Shutdown Feedback Voltage | VSD | Vfb≥6.5V | 6.9 | 7.5 | 8.1 | V |
| Shutdown Delay Current | Idelay | Ta=25°C, 5V≤Vfb≤VSD | 4 | 5 | 6 | μA |
| REFERENCE SECTION | | | | | | |
| Output Voltage ⁽¹⁾ | Vref | Ta=25°C | 4.80 | 5.00 | 5.20 | V |
| Temperature Stability ⁽¹⁾⁽²⁾ | Vref/ΔT | -25°C≤Ta≤+85°C | - | 0.3 | 0.6 | mV/°C |
| CURRENT LIMIT(SELF-PROTECTION)SECTION | | | | | | |
| Peak Current Limit | I _{OVER} | Max. inductor current | 1.89 | 2.15 | 2.41 | A |
| PROTECTION SECTION | | | | | | |
| Over Voltage Protection | VOVP | VCC≥24V | 25 | 27 | 29 | V |
| Thermal Shutdown Temperature (Tj) ⁽¹⁾ | TSD | - | 140 | 160 | - | °C |
| TOTAL STANDBY CURRENT SECTION | | | | | | |
| Start-up Current | I _{START} | VCC=14V | - | 100 | 170 | μA |
| Operating Supply Current (Control Part Only) | I _{OP} | VCC≤28 | - | 7 | 12 | mA |

Note:

1. These parameters, although guaranteed, are not 100% tested in production
2. These parameters, although guaranteed, are tested in EDS(water test) process

Typical Performance Characteristics(SenseFET part)

(KA5H0365R, KA5M0365R, KA5L0365R)

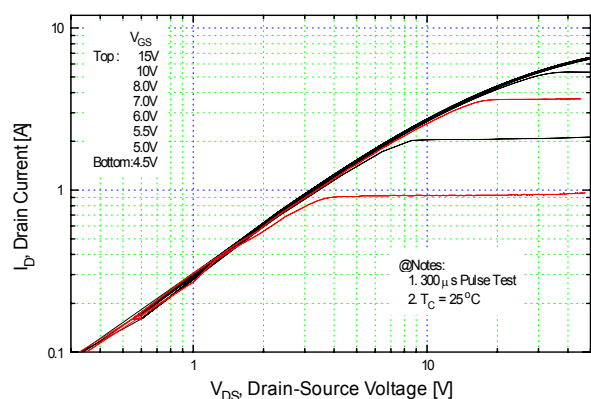


Figure 1. Output Characteristics

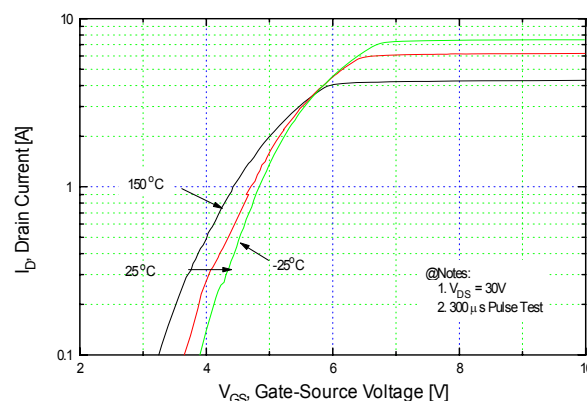


Figure 2. Transfer Characteristics

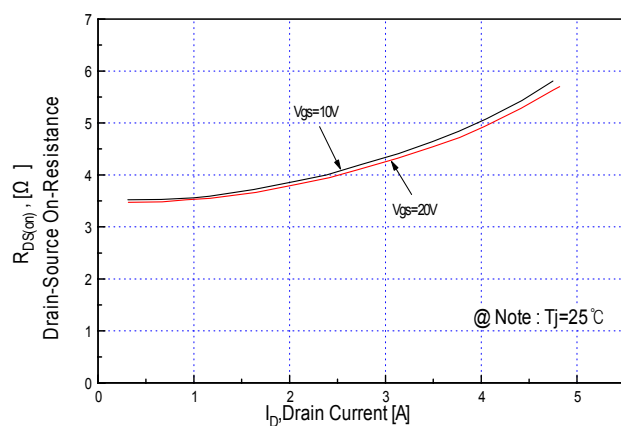


Figure 3. On-Resistance vs. Drain Current

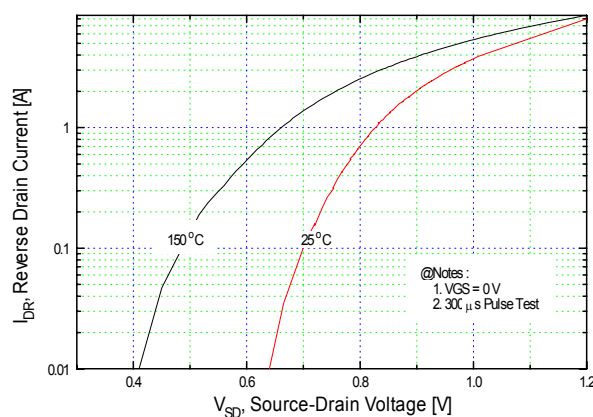


Figure 4. Source-Drain Diode Forward Voltage

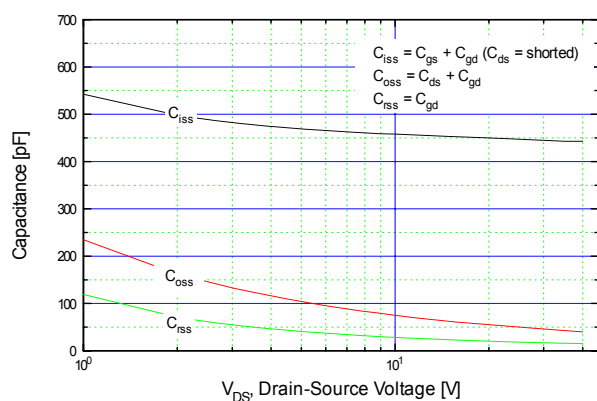


Figure 5. Capacitance vs. Drain-Source Voltage

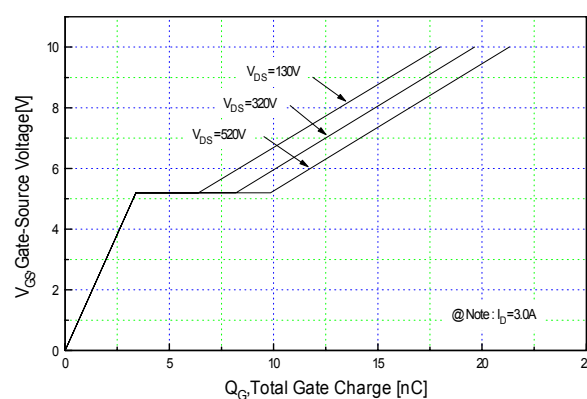


Figure 6. Gate Charge vs. Gate-Source Voltage

Typical Performance Characteristics (Continued)

(KA5H0365R, KA5M0365R, KA5L0365R)

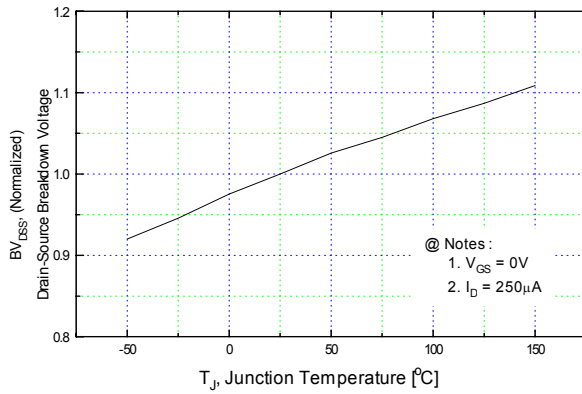


Figure 7. Breakdown Voltage vs. Temperature

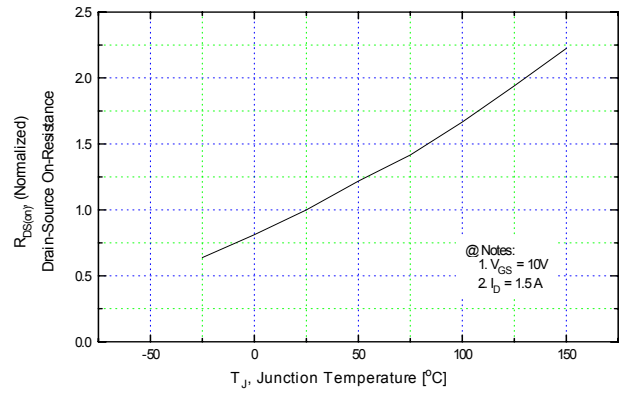


Figure 8. On-Resistance vs. Temperature

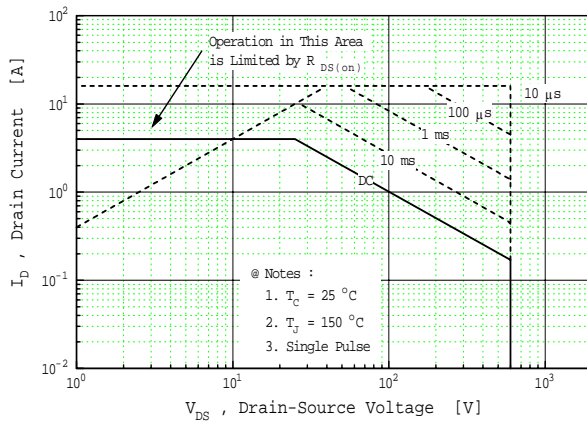


Figure 9. Max. Safe Operating Area

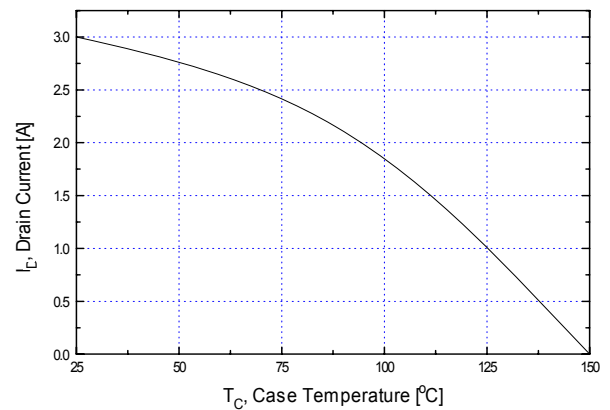


Figure 10. Max. Drain Current vs. Case Temperature

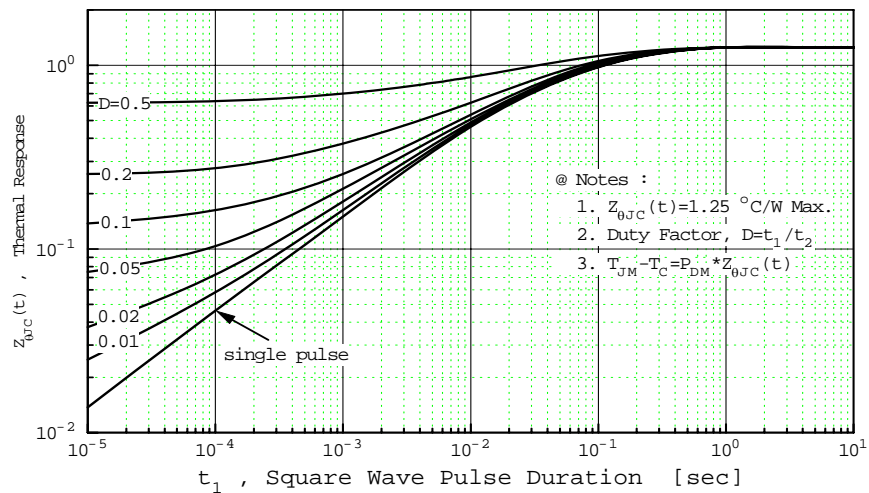


Figure 11. Thermal Response

Typical Performance Characteristics (Continued)

(KA5H0380R, KA5M0380R, KA5L0380R)

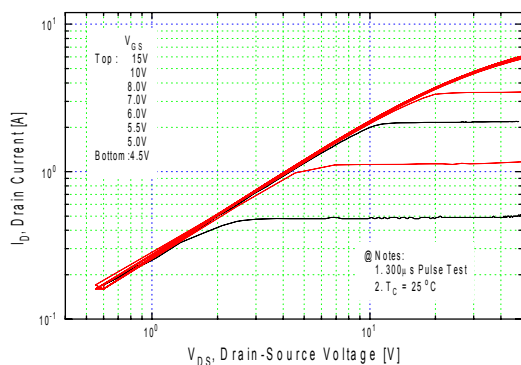


Figure 1. Output Characteristics

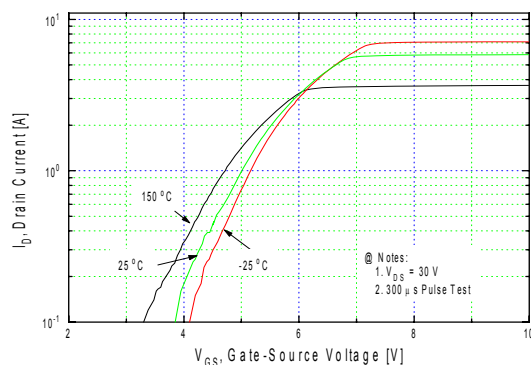


Figure 2. Transfer Characteristics

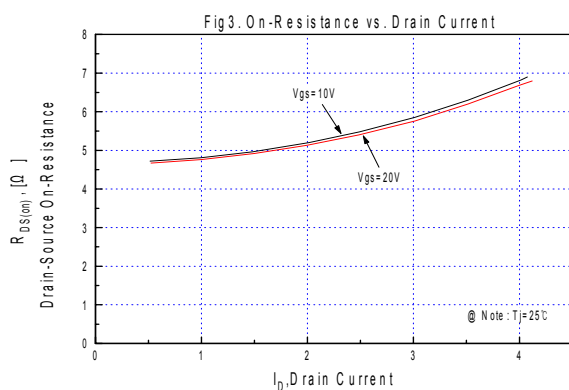


Figure 3. On-Resistance vs. Drain Current

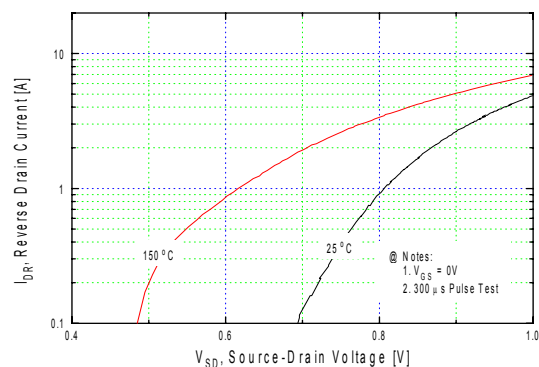


Figure 4. Source-Drain Diode Forward Voltage

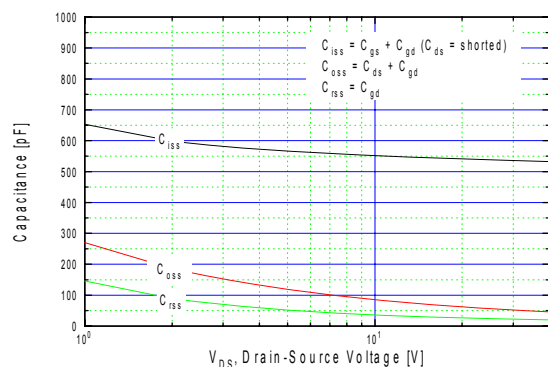


Figure 5. Capacitance vs. Drain-Source Voltage

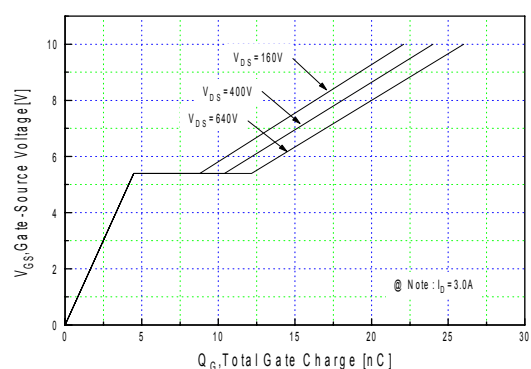


Figure 6. Gate Charge vs. Gate-Source Voltage

Typical Performance Characteristics (Continued)

(KA5H0380R, KA5M0380R, KA5L0380R)

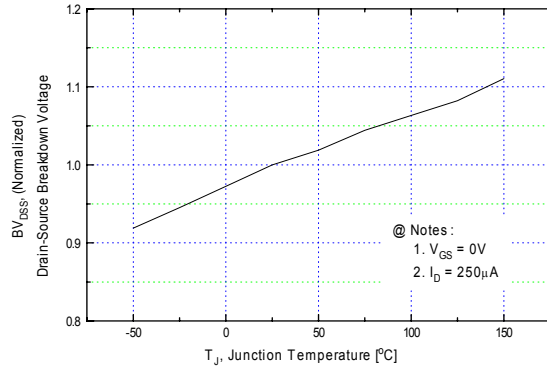


Figure 7. Breakdown Voltage vs. Temperature

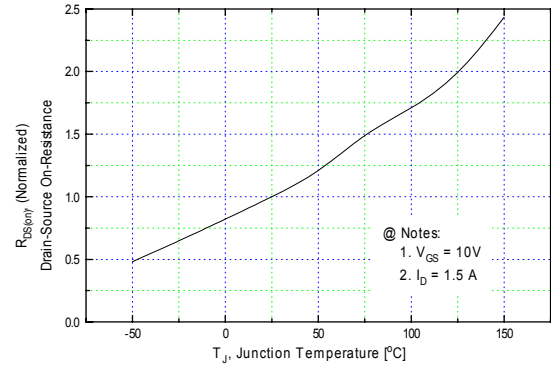


Figure 8. On-Resistance vs. Temperature

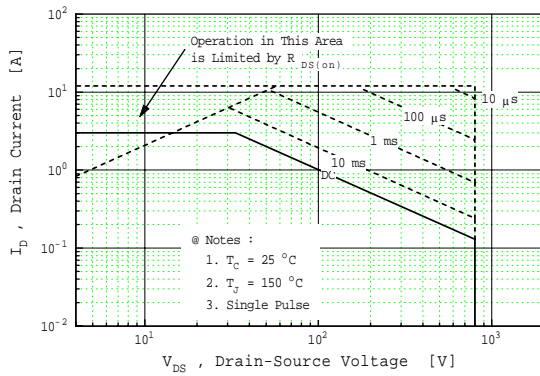


Figure 9. Max. Safe Operating Area

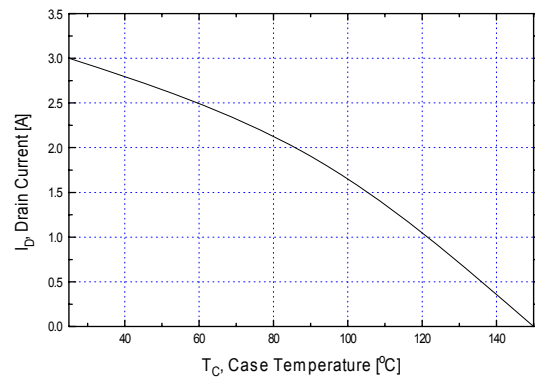


Figure 10. Max. Drain Current vs. Case Temperature

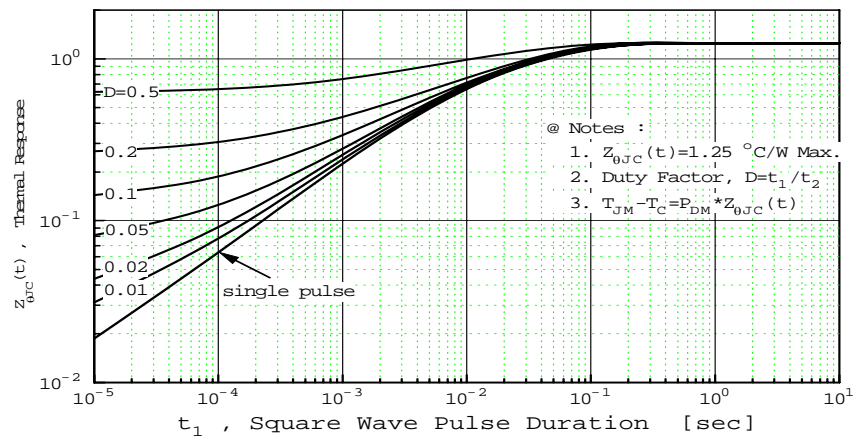


Figure 11. Thermal Response

Typical Performance Characteristics (Control Part) (Continued)

(These characteristic graphs are normalized at $T_a = 25^\circ\text{C}$)

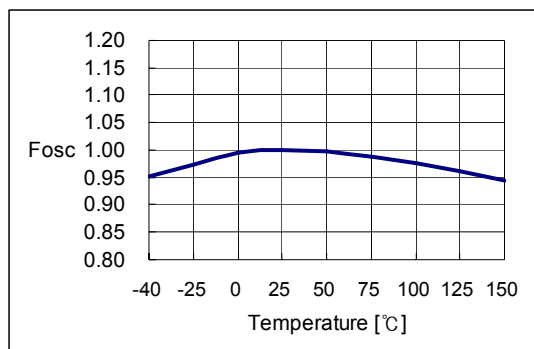


Figure 1. Operating Frequency

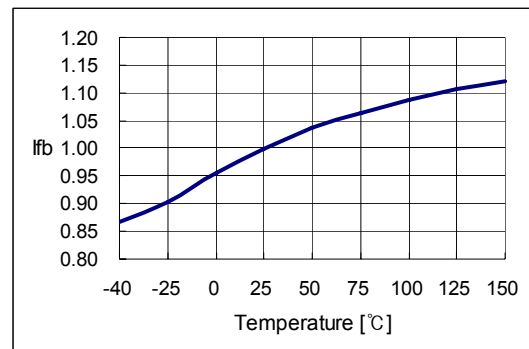


Figure 2. Feedback Source Current

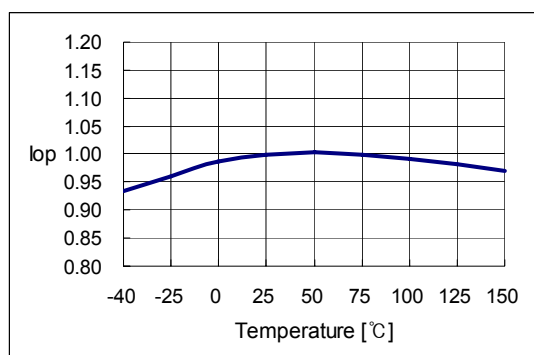


Figure 3. Operating Supply Current

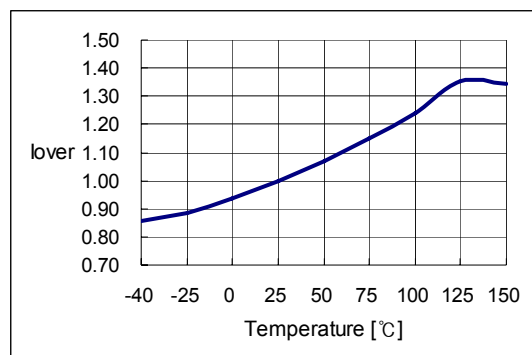


Figure 4. Peak Current Limit

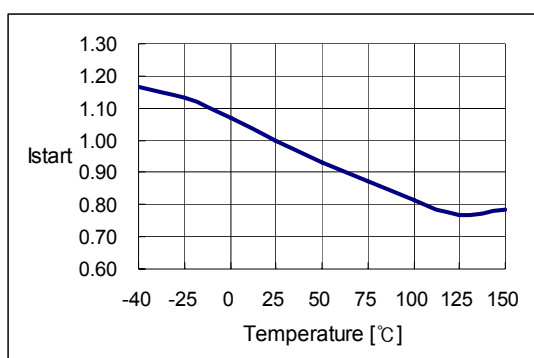


Figure 5. Start up Current

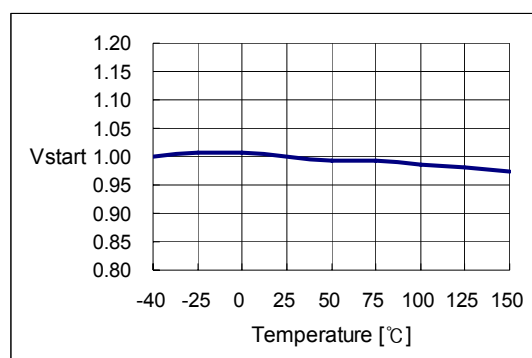


Figure 6. Start Threshold Voltage

Typical Performance Characteristics (Continued)

(These characteristic graphs are normalized at $T_a = 25^\circ\text{C}$)

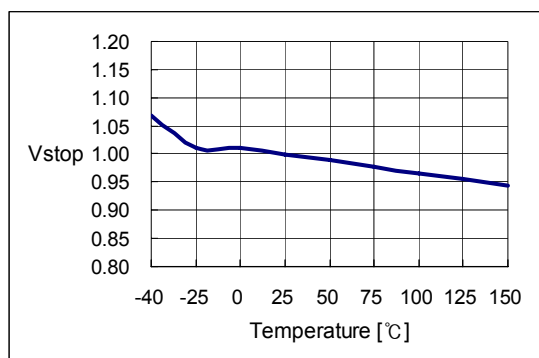


Figure 7. Stop Threshold Voltage

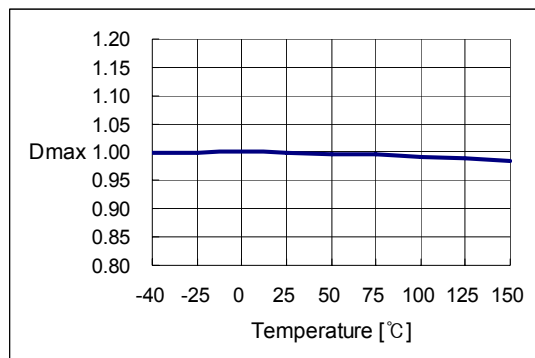


Figure 8. Maximum Duty Cycle

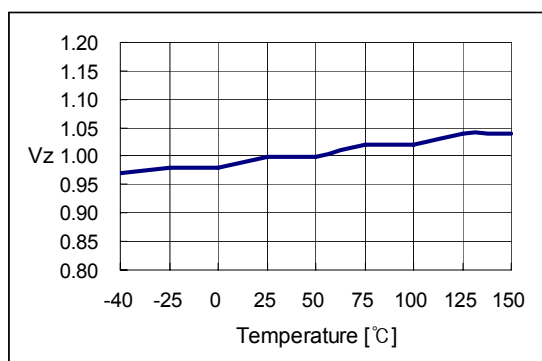


Figure 9. VCC Zener Voltage

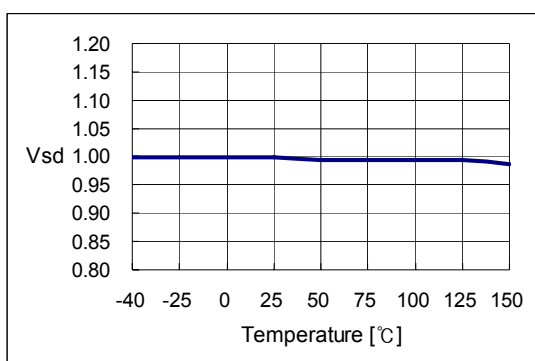


Figure 10. Shutdown Feedback Voltage

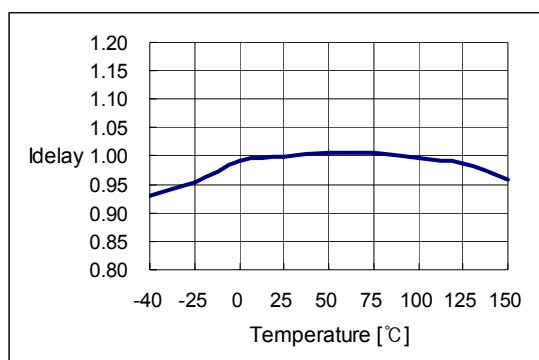


Figure 11. Shutdown Delay Current

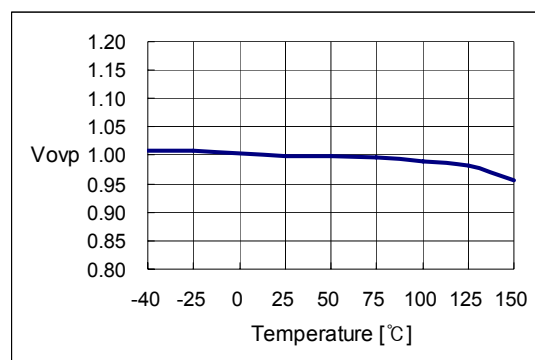


Figure 12. Over Voltage Protection

Typical Performance Characteristics (Continued)

(These characteristic graphs are normalized at $T_a = 25^\circ\text{C}$)

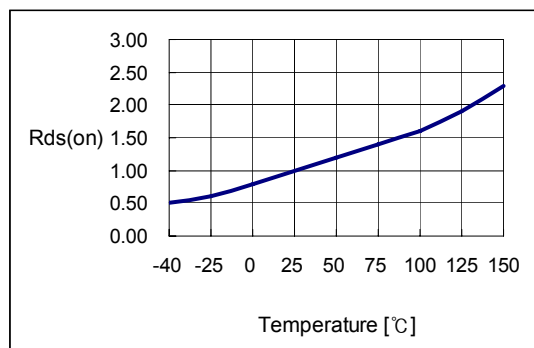
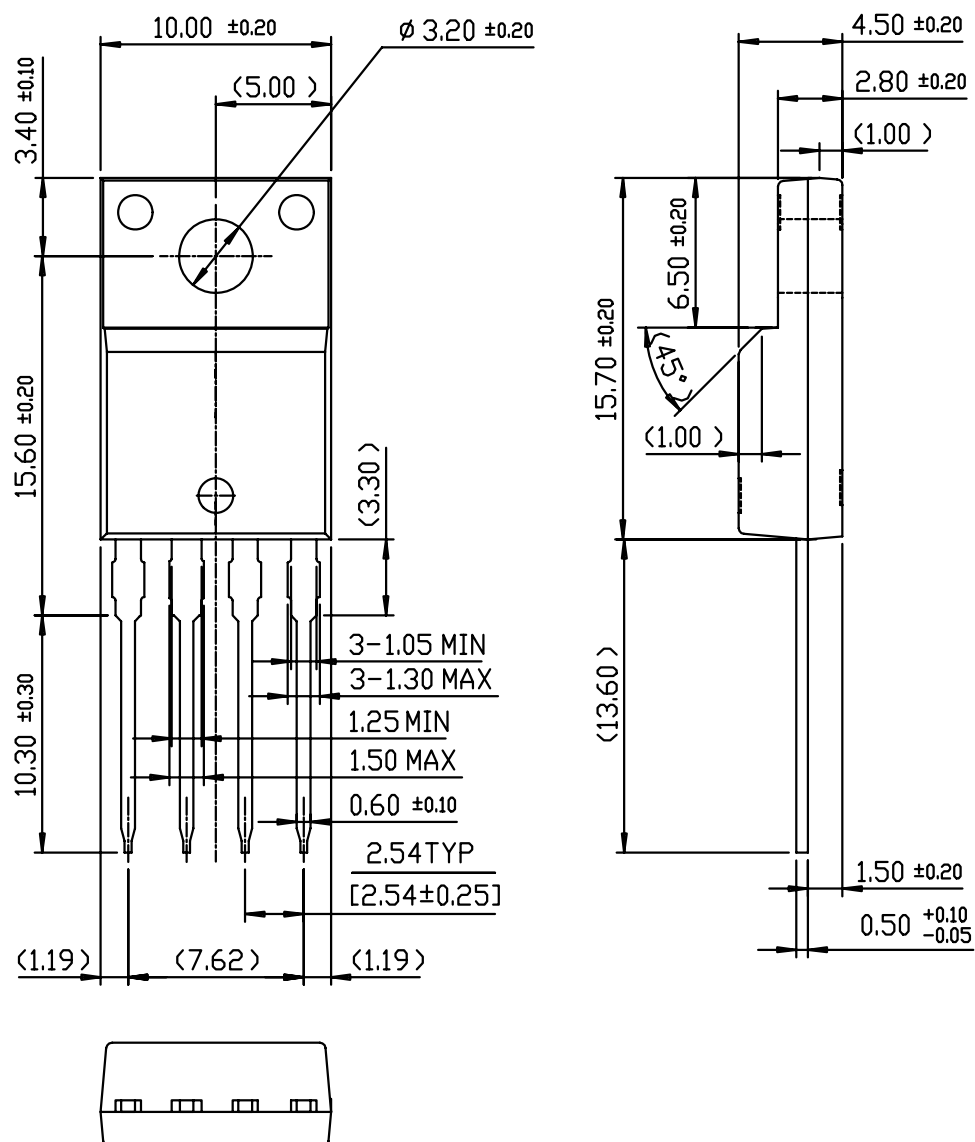


Figure13. Static Drain-Source on Resistance

Package Dimensions

TO-220F-4L



Technical drawing of a 254-pin connector, showing dimensions in millimeters (mm).

Front View (Left):

- Overall width: 10.00 ± 0.20
- Top section width: 3.40 ± 0.10
- Top section height: 15.60 ± 0.20
- Top section width (inner): (5.00)
- Top section width (outer): $\phi 3.20 \pm 0.20$
- Top section height (inner): (1.80)
- Top section height (outer): (3.30)
- Pin pitch: 2.54 TYP ($[2.54 \pm 0.25]$)
- Pin height: 5.00 ± 0.30
- Pin width: $3-1.05 \text{ MIN}$, $3-1.30 \text{ MAX}$
- Pin width (inner): 1.25 MIN , 1.50 MAX
- Pin width (outer): 0.60 ± 0.10
- Pin width (inner): (1.19) , (7.62) , (1.19)

Side View (Right):

- Overall height: 26.00 ± 0.80
- Top section height: 6.50 ± 0.20
- Top section width: 4.50 ± 0.20
- Top section width (inner): 2.80 ± 0.20
- Top section width (outer): (1.00)
- Top section height (inner): (1.00)
- Top section height (outer): (4.5)
- Pin pitch: 5.00 ± 0.30
- Pin height: 5.30 ± 0.30
- Pin width: 3.18 ± 0.30
- Pin width (inner): (3.50)
- Pin width (outer): 1.50 ± 0.10
- Pin width (inner): $0.50^{+0.10}_{-0.05}$

Detail View (Bottom):

- Pin width: 0.60 ± 0.10
- Pin width (inner): (1.19) , (7.62) , (1.19)

Ordering Information

| Product Number | Package | Marking Code | BVDSS | FOSC | RDS(on) |
|----------------|---------------------|--------------|-------|--------|---------|
| KA5H0365RTU | TO-220F-4L | 5H0365R | 650V | 100kHz | 3.6Ω |
| KA5H0365RYDTU | TO-220F-4L(Forming) | | | | |
| KA5M0365RTU | TO-220F-4L | 5M0365R | 650V | 67kHz | 3.6Ω |
| KA5M0365RYDTU | TO-220F-4L(Forming) | | | | |
| KA5L0365RTU | TO-220F-4L | 5L0365R | 650V | 50kHz | 3.6Ω |
| KA5L0365RYDTU | TO-220F-4L(Forming) | | | | |
| Product Number | Package | Marking Code | BVDSS | FOSC | RDS(on) |
| KA5H0380RTU | TO-220F-4L | 5H0380R | 800V | 100kHz | 4.6Ω |
| KA5H0380RYDTU | TO-220F-4L(Forming) | | | | |
| KA5M0380RTU | TO-220F-4L | 5M0380R | 800V | 67kHz | 4.6Ω |
| KA5M0380RYDTU | TO-220F-4L(Forming) | | | | |
| KA5L0380RTU | TO-220F-4L | 5L0380R | 800V | 50kHz | 4.6Ω |
| KA5L0380RYDTU | TO-220F-4L(Forming) | | | | |





TU :Non Forming Type

YDTU : Forming type



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