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FCP22N60N / FCPF22N60NT

N-Channel SupreMOS® MOSFET

600 V, 22 A, 165 mΩ



Features

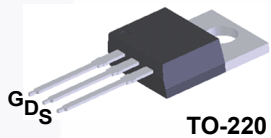
- $BV_{DSS} > 650\text{ V}$ @ $T_J = 150^\circ\text{C}$
- $R_{DS(on)} = 140\text{ m}\Omega$ (Typ.) @ $V_{GS} = 10\text{ V}$, $I_D = 11\text{ A}$
- Ultra Low Gate Charge (Typ. $Q_g = 45\text{ nC}$)
- Low Effective Output Capacitance (Typ. $C_{oss(eff.)} = 196.4\text{ pF}$)
- 100% Avalanche Tested
- RoHS Compliant

Application

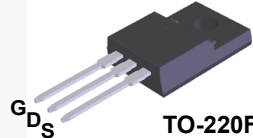
- LCD/LED/PDP TV
- Lighting
- Solar Inverter
- AC-DC Power Supply

Description

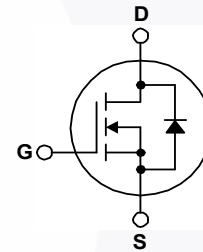
The SupreMOS® MOSFET is Fairchild Semiconductor's next generation of high voltage super-junction (SJ) technology employing a deep trench filling process that differentiates it from the conventional SJ MOSFETs. This advanced technology and precise process control provides lowest R_{sp} on-resistance, superior switching performance and ruggedness. SupreMOS MOSFET is suitable for high frequency switching power converter applications such as PFC, server/telecom power, FPD TV power, ATX power, and industrial power applications.



TO-220



TO-220F



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

| Symbol | Parameter | FCP22N60N | FCPF22N60NT | Unit |
|----------------|--|--|-------------|------------------|
| V_{DSS} | Drain to Source Voltage | 600 | | V |
| V_{GSS} | Gate to Source Voltage | ±45 | | V |
| I_D | Drain Current | - Continuous ($T_C = 25^\circ\text{C}$) | 22 | 22* |
| | | - Continuous ($T_C = 100^\circ\text{C}$) | 13.8 | 13.8* |
| I_{DM} | Drain Current | - Pulsed (Note 1) | 66 | 66* |
| E_{AS} | Single Pulsed Avalanche Energy (Note 2) | 672 | | mJ |
| I_{AR} | Avalanche Current (Note 1) | 7.3 | | A |
| E_{AR} | Repetitive Avalanche Energy (Note 1) | 2.75 | | mJ |
| dv/dt | MOSFET dv/dt | 100 | | V/ns |
| | Peak Diode Recovery dv/dt (Note 3) | 20 | | |
| P_D | Power Dissipation | ($T_C = 25^\circ\text{C}$) | 205 | 39 |
| | | - Derate Above 25°C | 1.64 | 0.31 |
| T_J, T_{STG} | Operating and Storage Temperature Range | -55 to +150 | | $^\circ\text{C}$ |
| T_L | Maximum Lead Temperature for Soldering, 1/8" from Case for 5 Seconds | 300 | | $^\circ\text{C}$ |

*Drain current limited by maximum junction temperature.

Thermal Characteristics

| Symbol | Parameter | FCP22N60N | FCPF22N60NT | Unit |
|-----------------|---|-----------|-------------|---------------------------|
| $R_{\theta JC}$ | Thermal Resistance, Junction to Case, Max. | 0.61 | 3.2 | $^\circ\text{C}/\text{W}$ |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient, Max. | 62.5 | 62.5 | |

Package Marking and Ordering Information

| Part Number | Top Mark | Package | Packing Method | Reel Size | Tape Width | Quantity |
|-------------|-------------|---------|----------------|-----------|------------|----------|
| FCP22N60N | FCP22N60N | TO-220 | Tube | N/A | N/A | 50 units |
| FCPF22N60NT | FCPF22N60NT | TO-220F | 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 to Source Breakdown Voltage | $I_D = 1\text{ mA}, V_{GS} = 0\text{ V}, T_J = 25^\circ\text{C}$ | 600 | - | - | V |
| | | $I_D = 1\text{ mA}, V_{GS} = 0\text{ V}, T_J = 150^\circ\text{C}$ | 650 | - | - | |
| $\Delta BV_{DSS} / \Delta T_J$ | Breakdown Voltage Temperature Coefficient | $I_D = 1\text{ mA}$, Referenced to 25°C | - | 0.68 | - | $V/^\circ\text{C}$ |
| I_{DSS} | Zero Gate Voltage Drain Current | $V_{DS} = 480\text{ V}, V_{GS} = 0\text{ V}$ | - | - | 10 | μA |
| | | $V_{DS} = 480\text{ V}, T_J = 125^\circ\text{C}$ | - | - | 100 | |
| I_{GSS} | Gate to Body Leakage Current | $V_{GS} = \pm 45\text{ V}, V_{DS} = 0\text{ V}$ | - | - | ± 100 | nA |

On Characteristics

| | | | | | | |
|--------------|--------------------------------------|---|-----|-------|-------|----------|
| $V_{GS(th)}$ | Gate Threshold Voltage | $V_{GS} = V_{DS}, I_D = 250\ \mu\text{A}$ | 2.0 | 3.0 | 4.0 | V |
| $R_{DS(on)}$ | Static Drain to Source On Resistance | $V_{GS} = 10\text{ V}, I_D = 11\text{ A}$ | - | 0.140 | 0.165 | Ω |
| g_{FS} | Forward Transconductance | $V_{DS} = 20\text{ V}, I_D = 11\text{ A}$ | - | 22 | - | S |

Dynamic Characteristics

| | | | | | | |
|-----------------|------------------------------------|--|---|-------|---|----------|
| C_{iss} | Input Capacitance | $V_{DS} = 100\text{ V}, V_{GS} = 0\text{ V}, f = 1\text{ MHz}$ | - | 1950 | - | pF |
| C_{oss} | Output Capacitance | | - | 75.9 | - | pF |
| C_{rss} | Reverse Transfer Capacitance | | - | 3 | - | pF |
| C_{oss} | Output Capacitance | $V_{DS} = 380\text{ V}, V_{GS} = 0\text{ V}, f = 1\text{ MHz}$ | - | 43.2 | - | pF |
| $C_{oss(eff.)}$ | Effective Output Capacitance | $V_{DS} = 0\text{ V to } 480\text{ V}, V_{GS} = 0\text{ V}$ | - | 196.4 | - | pF |
| $Q_{g(tot)}$ | Total Gate Charge at 10V | $V_{DS} = 380\text{ V}, I_D = 11\text{ A}, V_{GS} = 10\text{ V}$ (Note 4) | - | 45 | - | nC |
| Q_{gs} | Gate to Source Gate Charge | | - | 8.7 | - | nC |
| Q_{gd} | Gate to Drain "Miller" Charge | | - | 14.5 | - | nC |
| ESR | Equivalent Series Resistance (G-S) | $f = 1\text{ MHz}$ | - | 1 | - | Ω |

Switching Characteristics

| | | | | | | |
|--------------|---------------------|---|---|------|---|----|
| $t_{d(on)}$ | Turn-On Delay Time | $V_{DD} = 380\text{ V}, I_D = 11\text{ A}, V_{GS} = 10\text{ V}, R_G = 4.7\ \Omega$ (Note 4) | - | 16.9 | - | ns |
| t_r | Turn-On Rise Time | | - | 16.7 | - | ns |
| $t_{d(off)}$ | Turn-Off Delay Time | | - | 49 | - | ns |
| t_f | Turn-Off Fall Time | | - | 4 | - | ns |

Drain-Source Diode Characteristics

| | | | | | | |
|----------|--|---|---|-----|-----|---------------|
| I_S | Maximum Continuous Drain to Source Diode Forward Current | - | - | 22 | A | |
| I_{SM} | Maximum Pulsed Drain to Source Diode Forward Current | - | - | 66 | A | |
| V_{SD} | Drain to Source Diode Forward Voltage | $V_{GS} = 0\text{ V}, I_{SD} = 11\text{ A}$ | - | - | 1.2 | V |
| t_{rr} | Reverse Recovery Time | $V_{GS} = 0\text{ V}, I_{SD} = 11\text{ A}$ | - | 350 | - | ns |
| Q_{rr} | Reverse Recovery Charge | $di_F/dt = 100\text{ A}/\mu\text{s}$ | - | 6 | - | μC |

Notes:

1. Repetitive rating; pulse width-limited by maximum junction temperature.
2. $I_{AS} = 7.3\text{ A}, R_G = 25\ \Omega$, starting $T_J = 25^\circ\text{C}$.
3. $I_{SD} \leq 22\text{ A}, di/dt \leq 200\text{ A}/\mu\text{s}, V_{DD} \leq 380\text{ V}$, starting $T_J = 25^\circ\text{C}$.
4. Essentially independent of operating temperature typical characteristics.

Typical Performance Characteristics

Figure 1. On-Region Characteristics

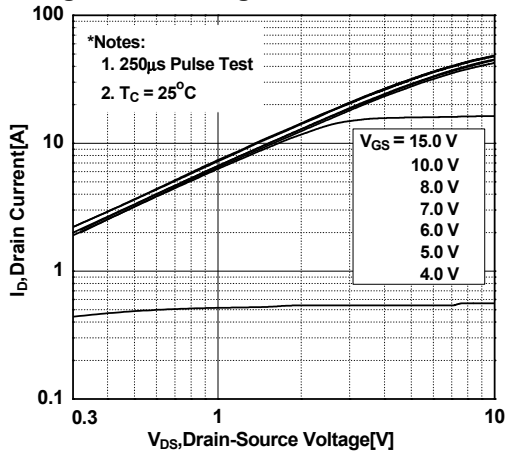


Figure 2. Transfer Characteristics

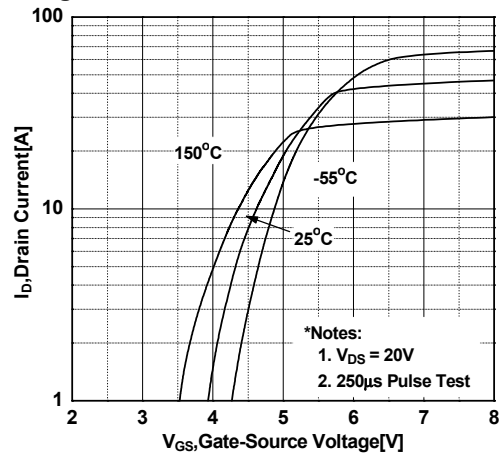


Figure 3. On-Resistance Variation vs. Drain Current and Gate Voltage

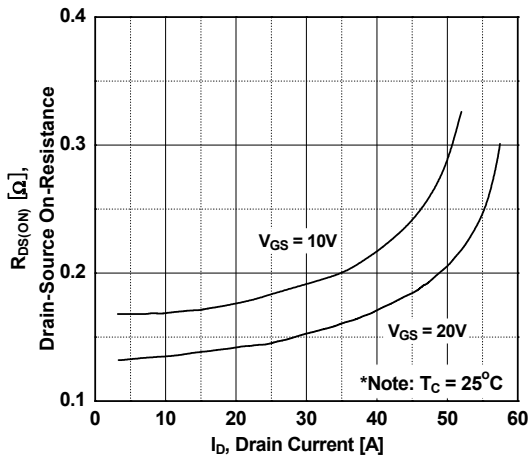


Figure 4. Body Diode Forward Voltage Variation vs. Source Current and Temperature

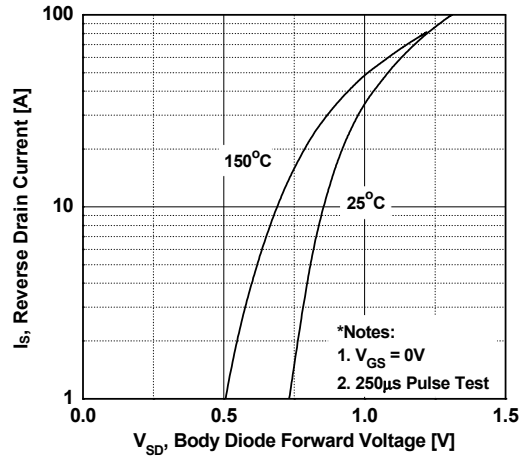


Figure 5. Capacitance Characteristics

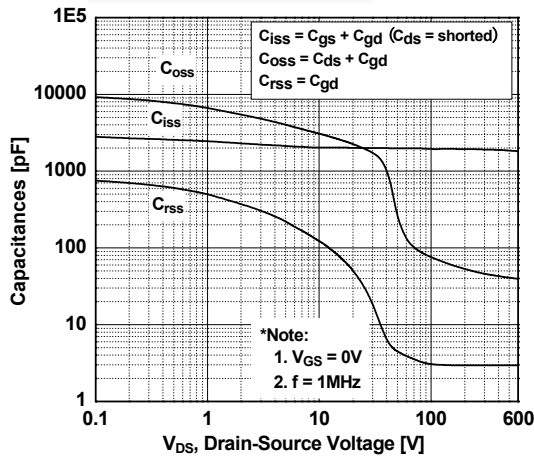
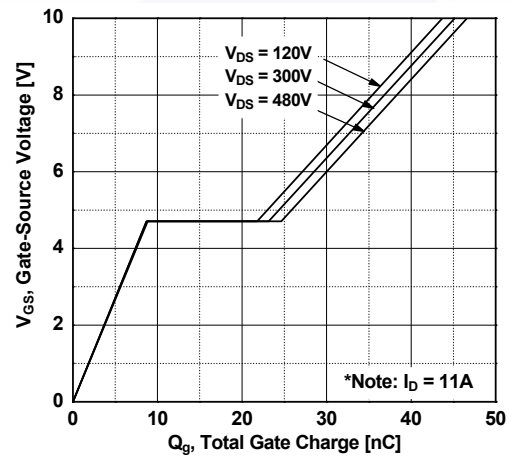


Figure 6. Gate Charge Characteristics



Typical Performance Characteristics (Continued)

Figure 7. Breakdown Voltage Variation vs. Temperature

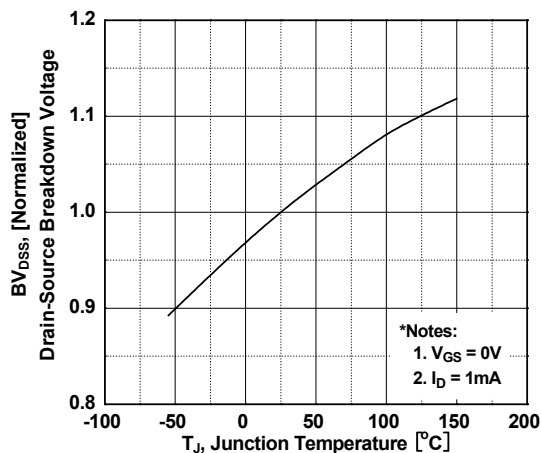


Figure 8. On-Resistance Variation vs. Temperature

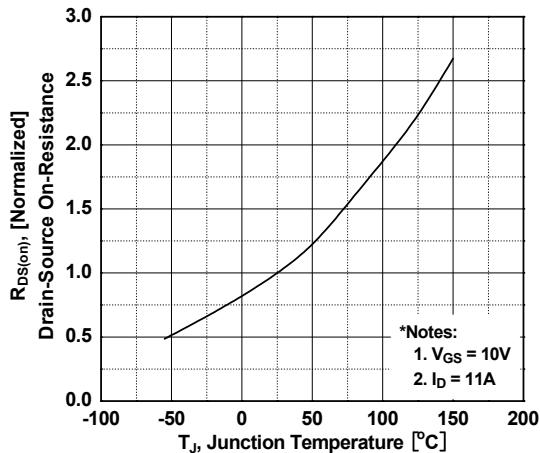


Figure 9. Maximum Safe Operating Area for FCP22N60N

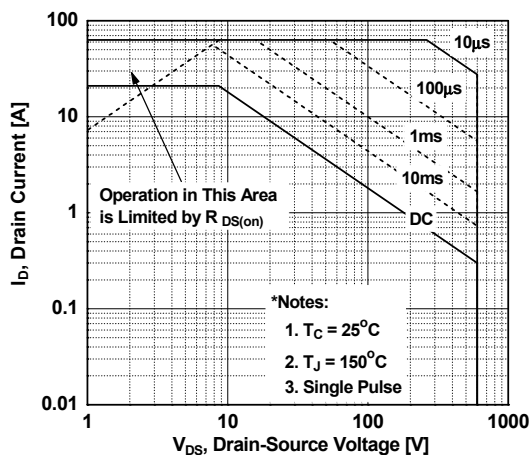


Figure 10. Maximum Safe Operating Area for FCPF22N60NT

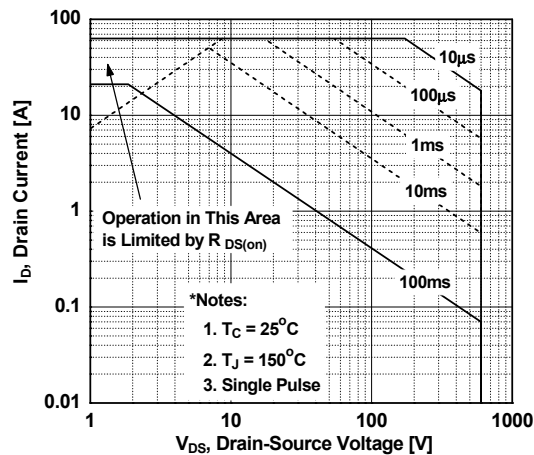
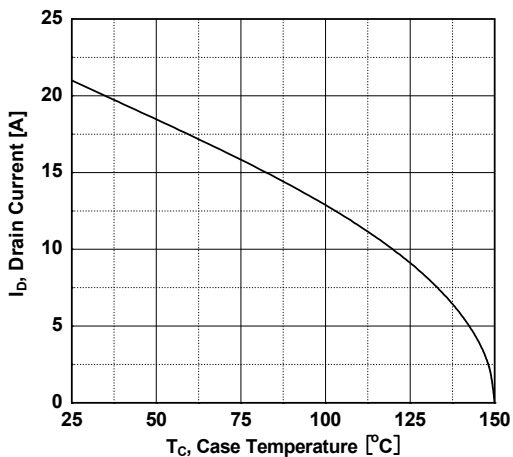


Figure 11. Maximum Drain Current vs. Case Temperature



Typical Performance Characteristics (Continued)

Figure 12. Transient Thermal Response Curve for FCP22N60N

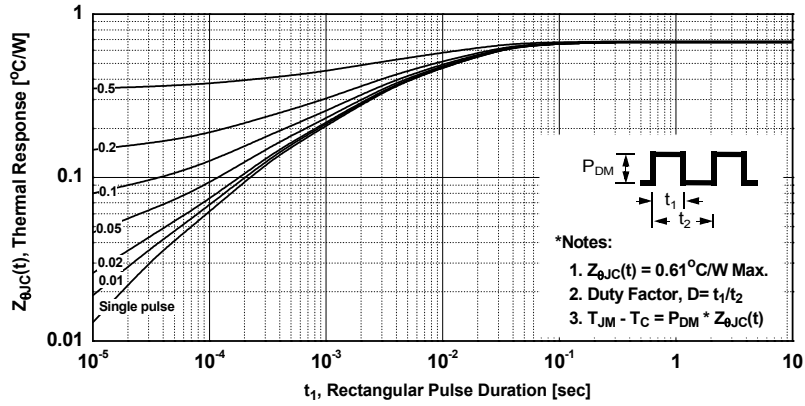


Figure 13. Transient Thermal Response Curve for FCPF22N60NT

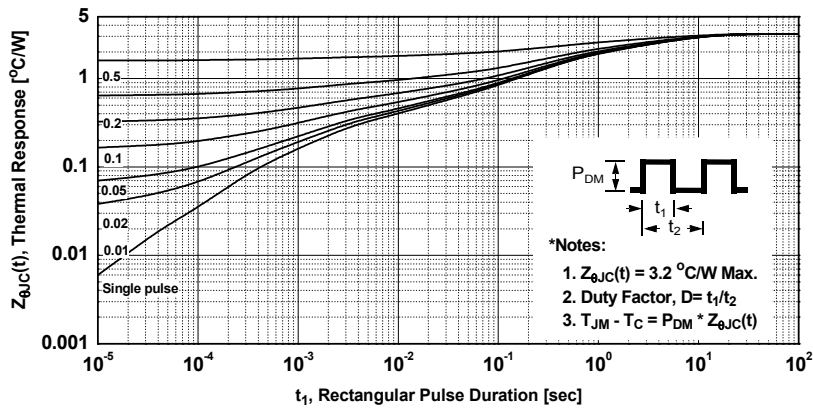




Figure 14. Gate Charge Test Circuit & Waveform



Figure 15. Resistive Switching Test Circuit & Waveforms



Figure 16. Unclamped Inductive Switching Test Circuit & Waveforms



Figure 17. Peak Diode Recovery dv/dt Test Circuit & Waveforms

Mechanical Dimensions

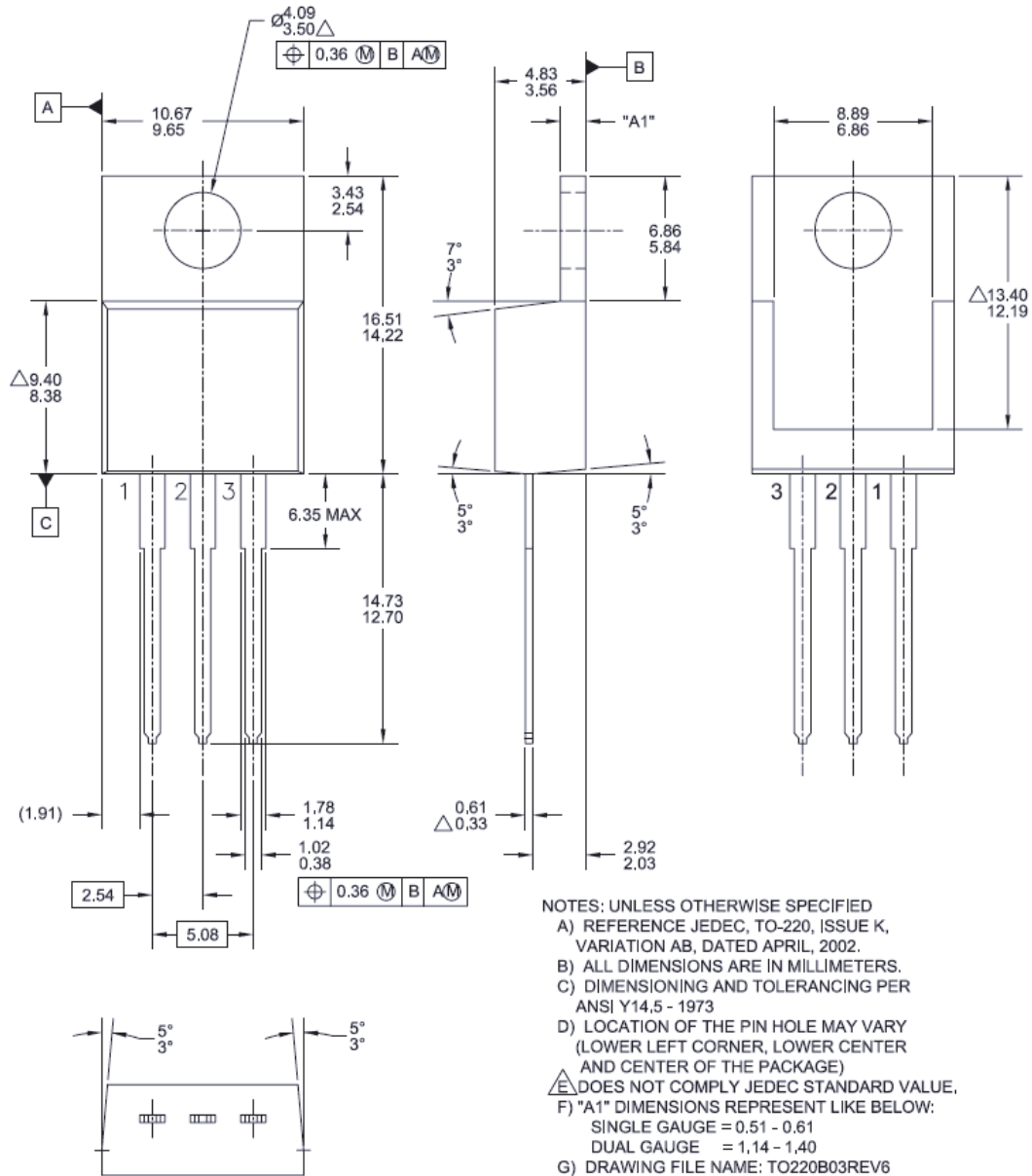


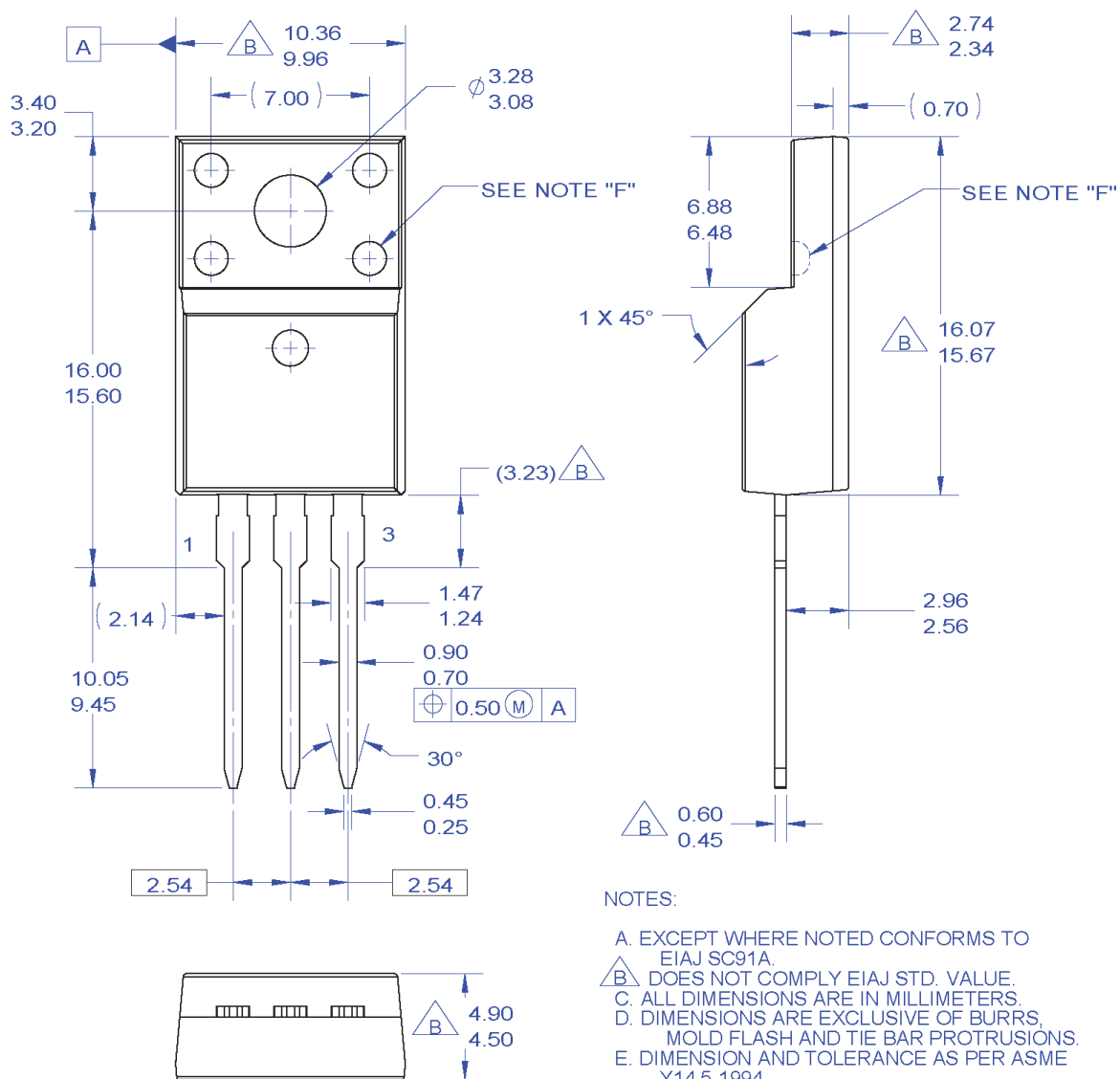
Figure 18. TO-220, Molded, 3-Lead, Jedec Variation AB

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Mechanical Dimensions



NOTES:

- A. EXCEPT WHERE NOTED CONFORMS TO EIAJ SC91A.
- B. DOES NOT COMPLY EIAJ STD. VALUE.
- C. ALL DIMENSIONS ARE IN MILLIMETERS.
- D. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH AND TIE BAR PROTRUSIONS.
- E. DIMENSION AND TOLERANCE AS PER ASME Y14.5-1994.
- F. OPTION 1 - WITH SUPPORT PIN HOLE.
OPTION 2 - NO SUPPORT PIN HOLE.
- G. DRAWING FILE NAME: TO220M03REV3

Figure 19. TO220, Molded, 3-Lead, Full Pack, EIAJ SC91, Straight Lead

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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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