

DISCRETE SEMICONDUCTOR

Transistors

•Bipolar Transistors

| Part | Pin to Pin Compatibility | Polarity | P _c max, W | V _{CB} max, V | V _{CE} max, V | V _{EB} max, V | I _c max, mA | h _{FE} | V _{CE} sat, V | I _{CB0} , μA | F _T , MHz | Nf, dB | Package (Pads) |
|--|--|----------|-----------------------|--|--|------------------------|------------------------|--|------------------------|---|--|---|----------------|
| KT220A9 KT220B9 KT220B9 KT220Г9 | KSC1623 | NPN | 0.2 | 60 | 50 | 5 | 100 | 90...180 135...270 200...400 300...600 | 0.3 | 0.1 | 250 | | SOT-23 |
| KT3102AM KT3102BM KT3102BM KT3102ГM KT3102DM KT3102EM KT3102ЖM KT3102ИM KT3102KM | BC547A BC547B BC548B BC548C BC549B BC238B BC549C | NPN | 0.25 | 50 50 30 20 30 20 50 50 30 | 50 50 30 20 30 20 50 50 30 | 5 5 | 200 | 100...250 200...500 200...500 400...800 200...500 400...1000 100...250 200...500 200...500 | 0.25 | 0.05 0.05 0.015 0.015 0.015 0.015 0.05 0.05 0.015 | 200 200 200 200 300 300 200 200 | 10 10 10 10 4 4 | TO-92 |
| KT3107A KT3107Б KT3107В KT3107Г KT3107Д KT3107Е KT3107Ж KT3107И KT3107К KT3107Л | BC307A BC308A BC308B BC309B BC307B BC308C BC309C | PNP | 0.3 | 50 50 30 30 30 25 25 50 30 25 | 45 45 25 25 25 20 20 45 25 20 | 5 | 100 | 70...140 120...220 70...140 120...220 180...460 120...220 180...460 180...460 380...800 380...800 | 0.2 | 0.1 | 250 | 10 10 10 10 10 4 4 10 10 4 | TO-92 |
| KT3117A KT3117Б KT3117A1 | 2N2221 2N2222 PN2222 | NPN | 0.3 0.3 0.5 | 60 75 60 | 60 75 60 | 4 | 400 | 40...200 100...300 40...200 | 0.6 | 10 | 200 | | TO-18 TO-92 |
| KT3126A KT3126Б | BF506 | PNP | 0.15 | 30 | 30 | 3 | 30 | 25...100 60...180 | 1.2 | 0.5 | 500 | 5 | TO-92 |
| KT3127A KT3128A1 | 2N4411 BF272 | PNP | 0.1 0.3 | 20 40 | 20 35 | 3 4 | 25 30 | 25...150 35...150 | | 1.0 0.1 | 600 800 | 5 5 | TO-72 TO-92 |
| KT3129A9 KT3129Б9 KT3129В9 KT3129Г9 KT3129Д9 | BC857A BC858A BC858B | PNP | 0.1 | 50 50 30 30 | 40 40 20 20 | 5 | 100 | 30...120 80...250 80...250 200...500 200...500 | 0.2 | 1.0 | 200 | | SOT-23 |
| KT3130A9 KT3130Б9 KT3130В9 KT3130Г9 KT3130Д9 KT3130Е9 KT3130Ж9 | BCW71 BCW72 BCW32 | NPN | 0.1 | 50 50 30 20 30 20 30 | 40 40 20 15 20 15 25 | 5 | 100 | 100...250 200...500 200...500 400...1000 200...500 400...1000 100...500 | | 0.1 | 150 150 150 300 150 300 150 | 10 10 10 4 4 | SOT-23 |
| KT3142A | 2N2369 | NPN | 0.36 | 40 | 40 | 4.5 | 200 | 40...120 | 0.25 | 0.4 | 500 | | TO-18 |
| KT3153A9 | BCW60,70,706 | NPN | 0.3 | 60 | 50 | 5 | 400 | 100...300 | 0.35 | 0.05 | 250 | | SOT-23 |
| KT3157A | BF423 | PNP | 0.2 | 250 | 250 | 5 | 30 | >50 | 1.0 | 0.1 | 60 | | TO-92 |
| KT3189A9 KT3189Б9 KT3189В9 | BC847A BC847B BC847C | NPN | 0.225 | 50 | 45 | 6 | 100 | 110...220 200...450 420...800 | 0.6 | 0.015 | 300 | 10 | SOT-23 |
| KT368A9 KT368Б9 | BF599 KSC2757 | NPN | 0.1 | 15 | 15 | 4 | 30 | 50...300 | | 0.5 | 900 | 3.3 | SOT-23 |
| KT502A KT502Б KT502В KT502Г KT502Д KT502Е | KSA539 BC212 | PNP | 0.35 | 40 40 60 60 80 90 | 25 25 40 40 60 80 | 5 | 150 | 40...120 80...240 40...120 80...240 40...120 40...120 | 0.6 | 1 | 5 | | TO-92 |

• Bipolar Transistors (continued)

| Part | Pin to Pin Compatibility | Polarity | P _c max, W | V _{ce} max, V | V _{ce} max, V | V _{EB} max, V | I _c max, mA | h _{FE} | V _{CE} sat, V | I _{CEO} , μA | F _T , MHz | Nf, dB | Package (Pads) |
|--|--|----------|--|-----------------------------------|----------------------------------|------------------------|------------------------|---|------------------------|-----------------------|----------------------|--------|----------------|
| KT503A KT503B KT503B KT503Г KT503Д KT503E | KSC815 BC183 | NPN | 0.35 | 40 40 60 60 80 100 | 25 25 40 40 60 80 | 5 | 150 | 40...120 80...240 40...120 80...240 40...120 40...120 | 0.6 | 1 | 5 | | TO-92 |
| KT520A KT520B | MPSA42 MPSA43 | NPN | 0.625 | 300 200 | 300 200 | 6 | 500 | >40 | 0.5 0.4 | 100 | 50 | | TO-92 |
| KT521A KT521B | MPSA92 MPSA93 | PNP | 0.625 | 300 200 | 300 200 | 5 | 500 | >40 | 0.5 0.4 | 100 | 50 | | TO-92 |
| KT8109A KT8109B KT8109B KT8109Г KT8109Д | SS9012D SS9012E SS9012F SS9012G SS9012H | PNP | 0.625 | 40 | 20 | 5 | 500 | 64...91 78...112 96...135 112...166 144...202 | 0.6 | 0.1 | | | TO-92 |
| KT8110A KT8110B KT8110B KT8110Г KT8110Д | SS9013D SS9013E SS9013F SS9013G SS9013H | NPN | 0.625 | 40 | 20 | 5 | 500 | 64...91 78...112 96...135 112...166 144...202 | 0.6 | 0.1 | | | TO-92 |
| KT8111A KT8111B KT8111B KT8111Г | SS9014A SS9014B SS9014C SS9014D | NPN | 0.45 | 50 | 45 | 5 | 100 | 80...150 100...300 200...600 400...1000 | 0.3 | 0.05 | 150 | 10 | TO-92 |
| KT8112A KT8112B KT8112B | SS9015A SS9015B SS9015C | PNP | 0.45 | 50 | 45 | 5 | 100 | 80...150 100...300 200...600 | 0.7 | 0.05 | 100 | 10 | TO-92 |
| KT8113A KT8113B KT8113B KT8113Г KT8113Д KT8113E | SS9018D SS9018E SS9018F SS9018G SS9018H SS9018I | NPN | 0.4 | 30 | 15 | 5 | 50 | 28...45 39...60 54...80 72...108 97...146 132...198 | 0.5 | 0.05 | 700 | | TO-92 |
| KT8114A KT8114B KT8114B KT8114Г KT8114Д KT8114E | SS8050B SS8050C SS8050D | NPN | 1.0 1.0 1.0 0.7 0.7 0.7 | 40 | 25 | 6 | 1500 | 85...160 120...200 150...300 150...300 1100 1100 1100 | 0.5 | 0.1 | 100 | | TO-92 |
| KT8115A KT8115B KT8115B KT8115Г KT8115Д KT8115E | SS8550B SS8550C SS8550D | PNP | 1.0 1.0 1.0 0.7 0.7 0.7 | 40 | 25 | 6 | 1500 | 85...160 120...200 150...300 150...300 1100 1100 1100 | 0.5 | 0.1 | 100 | | TO-92 |
| KT8116A KT8116B | 2N5401 2N5400 | PNP | 0.625 | 160 130 | 150 120 | 5 | 600 | 60...240 40...180 | 0.5 | 0.05 0.1 | 100 | 8 | TO-92 |
| KT8117A KT8117B | 2N5551 2N5550 | NPN | 0.625 | 180 160 | 160 140 | 6 | 600 | 80...250 80...250 | 0.2 0.25 | 0.05 0.1 | 100 | 8 | TO-92 |
| | 2N5551X | NPN | | 180 | 160 | 6 | 600 | 80...250 | 0.15 | 0.05 | 100 | 8 | Only chip |
| | KSC1623X | NPN | | 50 | 40 | 5 | 100 | 90...600 | 0.3 | 0.1 | 200 | 6 | Only chip |
| KT8128A KT8128B KT8128B KT8128Г KT8128Д KT8128E | SS9016D SS9016E SS9016F SS9016G SS9016H SS9016I | NPN | 0.4 | 30 | 20 | 4 | 25 | 28...45 39...60 54...80 72...108 97...146 132...198 | 0.3 | 0.1 | 400 | 5 | TO-92 |

DISCRETE SEMICONDUCTOR

Transistors

• Bipolar Transistors (continued)

| Part | Pin to Pin Compatibility | Polarity | P _c max, W | V _{CB} max, V | V _{CE} max, V | V _{EB} max, V | I _c max, mA | h _{FE} | V _{CE} sat, V | I _{CB0} , μA | F _T , MHz | Nf, dB | Package (Pads) |
|--|-------------------------------------|----------|-----------------------|------------------------|------------------------|------------------------|------------------------|--|------------------------|-----------------------|----------------------|--------|----------------|
| KT6136A | 2N3906 | PNP | 0.625 | 40 | 40 | 5 | 200 | 100...300 | 0.4 | 0.05 | 250 | | TO-92 |
| KT6137A | 2N3904 | NPN | 0.625 | 60 | 40 | 6 | 200 | 100...300 | 0.3 | 0.05 | 300 | | TO-92 |
| | BC182 BC182A BC182B | NPN | 0.5 | 60 | 50 | 6 | 100 | 120...450 120...220 200...450 | 0.6 | 0.015 | 150 | 10 | TO-92 |
| | BC183 BC183A BC183B BC183C | NPN | 0.5 | 45 | 30 | 6 | 100 | 110...800 110...220 200...450 420...800 | 0.6 | 0.015 | 150 | 10 | TO-92 |
| KT607A-4 KT607B-4 | 2N4073 | NPN | 1.5 | 40 30 40 | 35 30 35 | 4 | 150 | | | 0.1 | 1000 | 700 | TO-92 |
| | BC639 | NPN | 0.625 | 100 | 80 | 5 | 1500 | ≥25 | 0.5 | 0.1 | 100 | | TO-92 |
| | BC640 | PNP | 0.625 | 100 | 80 | 5 | 1500 | ≥25 | 0.5 | 0.1 | 100 | | TO-92 |
| KT646A KT646B KT646B | 2SC495 2CS496 | NPN | 1.0 | 60 40 40 | 60 40 40 | 4 | 1000 | 40...200 >150 150...340 | 0.85 0.25 0.25 | 10 10 0.05 | 250 | | TO-126 |
| KT660A KT660B | BC337 BC338 | NPN | 0.5 | 50 30 | 45 30 | 5 | 800 | 110...220 200...450 | 0.5 | 1.0 | 200 | | TO-92 |
| KT805AM KT805BM KT805BM KT805MM | KSD362 KSD773 | NPN | 30 | 300 | 45 30 | 5 | 5000 | V _{KER} >15 >15 >15 >25 | 2.5 3.0 | 1.0 | | | TO-92 |
| KT814A KT814B KT814B KT814Г | BD136 BD138 BD140 | PNP | 10 | | 40 50 70 100 | 5 | 1500 | 40...275 40...275 40...275 30...275 | 0.6 | 50 | 40 | | TO-126 |
| KT815A KT815B KT815B KT815Г | BD135 BD137 BD139 | NPN | 10 | | 40 50 70 100 | 5 | 1500 | 40...275 40...275 40...275 30...275 | 0.6 | 50 | 40 | | TO-126 |
| KT816A KT816B KT816B KT816Г | BD234 BD236 BD238 | PNP | 25 | | 40 45 60 100 | 5 | 3000 | 25...275 | 0.6 | 100 | 3.0 | | TO-126 |
| KT817A KT817B KT817B KT817Г | BD233 BD235 BD237 | NPN | 25 | | 40 45 60 100 | 5 | 3000 | 25...275 | 0.6 | 100 | 3.0 | | TO-126 |
| KT8126A1 KT8126B1 | MJE13007 MJE13006 | NPN | 80 | 700 600 | 400 300 | 9 | 8000 | 8...60 | 1.0 | 1000 | 4.0 | | TO-220 |
| KT8164A KT8164B | MJE13005 MJE13004 | NPN | 75 | 700 600 | 400 300 | 9 | 4000 | 8...40 | 1.0 | 1000 | | | TO-220 |
| KT8170A1 KT8170B1 | MJE13003 MJE13002 | NPN | 40 | 700 600 | 400 300 | 9 9 | 1500 | 8...40 | 1.0 | 1000 | 4.0 | | TO-126 |
| KT8176A KT8176B KT8176B | TIP31A TIP31B TIP31C | NPN | 40 | 60 80 100 | 60 80 100 | 5 | 3000 | >25 | 1.2 | | 3.0 | | TO-220 |

• **Bipolar Transistors** (continued)

| Part | Pin to Pin Compatibility | Polarity | P _C max, W | V _{CB} max, V | V _{CE} max, V | V _{EB} max, V | I _C max, mA | h _{FE} | V _{CE} sat, V | I _{CBO} , μA | F _T , MHz | Nf, dB | Package (Pads) |
|--|--|------------|-----------------------|------------------------------|--------------------------|------------------------|------------------------|---|--------------------------|--|----------------------|--------|----------------|
| KT8177A KT8177B KT8177B | TIP32A TIP32B TIP32C | PNP | 40 | 60 80 100 | 60 80 100 | 5 | 3000 | >25 | 1.2 | | 3.0 | | TO-220 |
| KT8212A KT8212B KT8212B | TIP41C TIP41B TIP41A | NPN | 65 | 60 80 100 | 60 80 100 | 5 | 6000 | 15...75 | 1.5 | I _{CES} =400 | 3.0 | | TO-220 |
| KT8213A KT8213B KT8213B | TIP42C TIP42B TIP42A | PNP | 65 | 60 80 100 | 60 80 100 | 5 | 6000 | 15...75 | 1.5 | I _{CES} =400 | 3.0 | | TO-220 |
| | MJE2955 | PNP | 75 | 70 | 60 | 5 | 10000 | 20...100 | 1.1 | 1000 | | | TO-220 |
| | MJE3055 | NPN | 75 | 70 | 60 | 5 | 10000 | 20...100 | 1.1 | 1000 | | | TO-220 |
| KT738A KT739A | TIP3055 TIP2955 | NPN PNP | 90 | 70 | 60 | 5 | 15000 | 20...100 | 1.1 | 1000 | | | TO-218 |
| KT732A KT733A | MJE4343 MJE4353 | NPN PNP | 125 | 160 | 160 | 7 | 16000 | 8...15 | 2.0 | 750 | 1.0 | | TO-218 |
| KT8224A KT8224B* | BU2508A BU2508D | NPN | 100 | 1500 | 700 | 7.5 | 8000 | 4...7 | 1.0 | I _{CEO} =1.0 100...187 | | | TO-218 |
| KT8225A | BU941ZP | NPN | 155 | | 350 | 5 | 15000 | >300 | 1.8 | I _{VEB} =5.0V I _{CEO} =20 | | | TO-218 |
| KT8228A KT8228B* | BU2525A BU2525D | NPN | 125 | 1500 | 800 | 7.5 | 12000 | 5.0...9.5 | 5.0 | I _{CEO} =1.0 80...150 | | | TO-218 |
| KT8229A | TIP35F | NPN | 125 | 180 | 180 | 5 | 25000 | 15...75 | 1.8 | I _{CEO} =1.0 | 3.0 | | TO-218 |
| KT8230A | TIP36F | PNP | 125 | 180 | 180 | 5 | 25000 | 15...75 | 1.8 | 1.0 | 3.0 | | TO-218 |
| KT8261A | BUD44D2 | NPN | 25 | 700 | 400 | 9 | 2000 | >10 | 0.65 | 0.1 | | | TO-126 |
| | BUL44D2 | NPN | 40 | 700 | 400 | 9 | 5000 | >10 | 0.65 | 0.1 | | | TO-220 |
| KT8247A | BUL45D2 | NPN | 75 | 700 | 400 | 12 | 5000 | >22 | 0.5 | 100 | | | TO-220 |
| KT8248A | BU2506F | NPN | 90 | V _{CEK} 1500 | 700 | 7.5 | 5000 | 3.8...9.0 | 3.0 | I _{CEK} , mA 1.0 | | | TO-218 |
| KT538A | MJE13001 | NPN | 0.7 | 600 | 400 | 9 | 0.5 | 5...90 | 0.5 | 1000 | 4 | | TO-92 |
| KT8248A1 | BU2506F | NPN | 90 | V _{CEK} 1500 | 700 | 7.5 | 5000 | 3.8...9.0 | 3.0 | I _{CEK} ,mA 1.0 | | | TO-218 |
| KT8290A | BUH100 | NPN | 100 | 700 | 400 | 9 | 10000 | >10 | 1.0 | 0.1 | | | TO-220 |
| KT8255A | BU407 | PNP | 60 | 330 | 160 | 6 | 7000 | >15 | 1.0 | 1.0 | | | TO-220 |
| KT8270A | MJE13001 | NPN | 0.7 | 600 | 400 | 9 | 0.5 | 5...90 | 0.5 | 1000 | 4 | | TO-126 |
| KT8296A KT8296B KT8296B KT8296G | KSD882R KSD882O KSD882Y KSD882G | NPN | 10 | 40 | 30 | 5 | 3000 | 60...120 100...200 160...320 200...400 | 0.5 | 100 | | | TO-126 |
| KT8297A KT8297B KT8297B KT8297G | KSB772R KSB772O KSB772Y KSB772G | PNP | 10 | 40 | 30 | 5 | 3000 | 60...120 100...200 160...320 200...400 | 0.5 | 100 | | | TO-126 |
| KT872A KT872B KT872B KT872I* with clamping diode | BU508A BU508 BU508D | NPN | 100 | 1500 1500 1200 1500 | 700 700 600 700 | 6 | 1000 | >6 | 1.0 5.0 1.0 1.0 | | 4.0 | | TO-218 |
| KT928A | 2N2218 | NPN | 0.5 | 60 | 60 | 5 | 0.8 | 20...100 | 1.0 | 5.0 | 250 | | TO-126 |
| KT928B | 2N2219 | NPN | 0.5 | 60 | 60 | 5 | 0.8 | 50...200 | 1.0 | 5.0 | 250 | | TO-126 |
| KT928C | 2N2219A | NPN | 0.5 | 75 | 75 | 5 | 0.8 | 100...300 | 1.0 | 1.0 | 250 | | TO-126 |
| KT940A KT940B KT940B | BF459 BF458 | NPN | 10 | 300 250 160 | 300 250 160 | 5 | 100 | >25 | 1.0 | 0.05 | | | TO-126 |
| KT969A | BF469 | NPN | 6 | 300 | 250 | 5 | 100 | 50...250 | 1.0 | 0.05 | 60 | | TO-126 |

DISCRETE SEMICONDUCTOR

Transistors

• Power Bipolar Darlington Transistors

| Part | Pin to Pin Compatibility | Polarity | P _c max, W | V _{CB} max, V | V _{CE} max, V | V _{EB} max, V | I _c max, mA | h _{FE} | V _{CE} sat, V | I _{CB0} , μA | F _T , MHz | Package |
|--------------------------------------|----------------------------|----------|-----------------------|------------------------|------------------------|------------------------|------------------------|--|---------------------------|-----------------------|----------------------|---------|
| KT8115A KT8115B KT8115B | TIP127 TIP126 TIP125 | PNP | 65 | 100 80 60 | 100 80 60 | 5 | 5000 | >1000 | 2.0 | 200 | 4 | TO-220 |
| KT8116A KT8116B KT8116B | TIP122 TIP121 TIP120 | NPN | 65 | 100 80 60 | 100 80 60 | 5 | 5000 | >1000 | 2.0 | 200 | 4 | TO-220 |
| KT8214A KT8214B KT8214B | TIP110 TIP111 TIP112 | NPN | 50 | 60 80 100 | 60 80 100 | 5 | 2000 | >500 | 2.5 | 1000 | | TO-220 |
| KT8215A KT8215B KT8215B | TIP115 TIP116 TIP117 | PNP | 50 | 60 80 100 | 60 80 100 | 5 | 2000 | >500 | 2.5 | 1000 | | TO-220 |
| KT8156A KT8156B | BU807 | NPN | 60 | 330 | 150 200 | 6 | 8000 | >100 | 1.5 | 1000 | | TO-220 |
| KT8158A KT8158B KT8158B | BDV65A BDV65B BDV65C | NPN | 125 | 60 80 100 | 60 80 100 | 5 | 12000 | >1000 | 2.0 | 400 | | TO-218 |
| KT8159A KT8159B KT8159B | BDV64A BDV64B BDV64C | PNP | 125 | 60 80 100 | 60 80 100 | 5 | 12000 | >1000 | 2.0 | 400 | | TO-218 |
| KT8225A | BU941ZP | NPN | 155 | 350 | 350 | 5 | 15000 | >300 | 2.7 | 100 | | TO-218 |
| KT8251A | BDV65F | NPN | 125 | 180 | 180 | 5 | 10000 | >100 | 2.0 | 0.4 | | TO-218 |
| KT972A KT972B KT972B KT972Г | BD875 | NPN | 8.0 | 60 45 60 60 | 60 45 60 60 | 5 | 2000 | >750 >750 750...5000 750...5000 | 1.5 1.5 1.5 0.95 | | 200 | TO-126 |
| KT973A KT973B KT973B | BD876 | PNP | 8.0 | 60 45 60 | 60 45 60 | 5 | 2000 | >750 >750 750...5000 | 1.5 1.5 1.5 | | 200 | TO-126 |

• Unijunction Transistors

| Part | Pin to Pin Compatibility | P max, W | V _b , b2 max, V | I _e pulse, A | I _e rev, μA | V _{eb} sat, V | η | Package |
|------------------|--------------------------|----------|----------------------------|-------------------------|------------------------|------------------------|----------------------------|-------------|
| KT132A KT132B | 2N2646 2N2647 | 0.3 | 35 | 2.0 | 12.0 0.2 | 3.5 | 0.56...0.75 0.68...0.82 | Case 22A-01 |
| KT133A KT133B | 2N4870 2N4871 | 0.3 | 35 | 1.5 | 1.0 | 2.5 | 0.56...0.75 0.70...0.85 | TO-92 |

• Logic Level N-Channel MOSFETs

| Part | Pin to Pin Compatibility | V _{ds} max, V | R _{ds} (on) Ohm | I _d max, A | V _{gs} max, V | P max, W | V _{gs} (th), V | Package |
|----------------------------|--------------------------|------------------------|--------------------------|-----------------------|------------------------|----------|-------------------------------------|---------|
| KП723Г | IRLZ44 | 60 | 0.028 | 50 | ±10 | 150 | 1.0...2.0 | TO-220 |
| KП727B | IRLZ34 | 60 | 0.05 | 30 | ±10 | 88 | 1.0...2.0 | TO-220 |
| KП744Г | IRL520 | 100 | 0.27 | 9.2 | ±10 | 60 | 1.0...2.0 | TO-220 |
| KП745Г | IRL530 | 100 | 0.22 | 15 | ±10 | 88 | 1.0...2.0 | TO-220 |
| KП746Г | IRL540 | 100 | 0.077 | 28 | ±10 | 150 | 1.0...2.0 | TO-220 |
| KП737Г | IRL630 | 200 | 0.4 | 18 | ±10 | 50 | 1.0...2.0 | TO-220 |
| KП750Г | IRL640 | 200 | 0.18 | 18 | ±10 | 50 | 1.0...2.0 | TO-220 |
| KП775A KП775B KП775B | 2SK2498A-B | 60 55 60 | 0.009 0.009 0.011 | 50 | ±20 | 150 | 1.0...2.0 1.0...2.0 1.0...2.0 | TO-220 |

• Low Power MOSFETs

| Part | Pin to Pin Compatibility | P max, W | Vgs max, V | Vds max, V | Vgs(off), V | Rds(on), Ohm | Id max, A | g fs, A/V | Package |
|--|--------------------------|--|------------|--|--|-----------------------------|--------------------|----------------------|---------|
| КП501А КП501Б КП501В | ZVN2120 | 0.5 | ±20 | 240 200 200 | 1.0...3.0 1.0...3.0 | 10 10 15 | 10 | >0.1 | TO-92 |
| КП502А | BSS124 | 1.0 | ±10 | 400 | 1.5...2.5 | 28 | 0.12 | 0.1 | TO-92 |
| КП503А | BSS129 | 1.0 | ±10 | 400 | 1.5...2.5 | 28 | 0.12 | 0.1 | TO-92 |
| КП504А КП504Б КП504В КП504Г КП504Д КП504Е | BSS88 | 1.0 1.0 0.7 0.7 0.7 0.7 | ±10 | 250 250 200 180 200 200 | 0.6...1.2 | 8 8 8 10 8 8 | 0.32 | 0.14 | TO-92 |
| КП505А КП505Б КП505В КП505Г | BSS295 | 1.0 1.0 1.0 0.7 | ±10 | 50 50 60 8 | 0.8...2.0 0.8...2.0 0.8...2.0 0.4...0.8 | 0.3 0.3 0.3 1.2 | 1.4 | 0.5 0.5 0.5 | TO-92 |
| КП507А | BSS315 | 1.0 | ±20 | -50 | -0.8...-2.0 | 0.8 | -1.1 | | TO-92 |
| КП508А | BSS92 | 1.0 | ±20 | -240 | -0.8...-2.0 | 20 | -0.15 | | TO-92 |
| КП509А9 КП509Б9 КП509В9 | BSS131 | 0.36 0.50 0.36 | ±14 | 240 240 200 | 0.8...-2.0 0.6...-1.2 0.8...-2.0 | 16 8 16 | 0.1 0.25 0.1 | 0.06 0.14 0.06 | SOT-23 |
| КП510А9 | IRML2402 | 0.54 | ±12 | 20 | 0.7...-1.6 | 0.25 | 1.2 | 1.3 | SOT-23 |
| КП511А КП511Б | TN0535 TN0540 | 0.75 | ±20 | 350 400 | 0.8...-2.0 | 22 | 0.14 | 0.125 | TO-92 |
| КП523А КП523Б | BSS297 | 1.0 1.0 | ±20 ±14 | 200 200 | 0.8...2.0 0.8...2.0 | 2.0 4.0 | 0.48 0.34 | 0.5 0.5 | TO-92 |
| КП214А9 | 2N7002LT1 | 0.2 | ±40 | 60 | 1.0...2.5 | 7.5 | 0.115 | 0.08 | SOT-23 |

• Power N-Channel MOSFETs

| Part | Pin to Pin Compatibility | Vds max, V | Rds (on), Ohm | Id max, A | Vgs max, V | P max, W | Vgs (th), V | Package |
|--|----------------------------|-------------------|-------------------------|-----------------|------------|------------|-------------|---------|
| КП723А КП723Б КП723В | IRFZ44 IRFZ45 IRFZ40 | 60 60 50 | 0.028 0.035 0.028 | 50 50 50 | ±20 | 150 | 2.0...4.0 | TO-220 |
| КП726А КП726Б | BUZ90А BUZ90 | 600 | 2.0 1.6 | 4.0 4.5 | ±20 | 75 | 2.0...4.0 | TO-220 |
| КП727А КП727Б | BUZ71 IRFZ34 | 50 60 | 0.1 0.05 | 14 30 | ±20 | 75 | 2.0...4.0 | TO-220 |
| КП728Г1,Г2 КП728С1,С2 КП728Е1,Е2 | BUZ80А | 700 650 600 | 5.0 4.0 3.0 | 3.0 | ±20 | 75 | 2.0...4.0 | TO-220 |
| КП739А КП739Б КП739В | IRFZ14 IRFZ10 IRFZ15 | 60 50 60 | 0.2 0.2 0.3 | 10 10 8.3 | ±20 | 43 | 2.0...4.0 | TO-220 |
| КП740А КП740Б КП740В | IRFZ24 IRFZ20 IRFZ25 | 60 50 60 | 0.1 0.1 0.12 | 17 17 14 | ±20 | 60 | 2.0...4.0 | TO-220 |
| КП741А КП741Б | IRFZ48 IRFZ46 | 60 50 | 0.018 0.024 | 50 | ±20 | 190 150 | 2.0...4.0 | TO-220 |
| КП742А КП742Б | STH75N06 STH80N05 | 60 50 | 0.014 0.012 | 75 80 | ±20 | 200 | 2.0...4.0 | TO-218 |

DISCRETE SEMICONDUCTOR

Transistors

• Power N-Channel MOSFETs (continued)

| Part | Pin to Pin Compatibility | Vds max, V | Rds (on), Ohm | Id max, A | Vgs max, V | P max, W | Vgs (th), V | Package |
|-------------------------|--------------------------|------------|---------------|-----------|------------|----------|-------------|---------|
| KП743A | IRF510 | 100 | 0.54 | 5.6 | ±20 | 43 | 2.0...4.0 | TO-220 |
| KП743Б | IRF511 | 80 | 0.54 | 5.6 | | | | TO-126 |
| KП743B | IRF512 | 100 | 0.74 | 4.9 | | | | |
| KП743A1 | | 100 | 0.54 | 5.5 | ±20 | 40 | 2.0...4.0 | TO-126 |
| KП744A | IRF520 | 100 | 0.27 | 9.2 | ±20 | 60 | 2.0...4.0 | TO-220 |
| KП744Б | IRF521 | 80 | 0.27 | 9.2 | | | | |
| KП744B | IRF522 | 100 | 0.36 | 8.0 | | | | |
| KП745A | IRF530 | 100 | 0.16 | 14.0 | ±20 | 88 | 2.0...4.0 | TO-220 |
| KП745Б | IRF531 | 80 | 0.16 | 14.0 | | | | |
| KП745B | IRF532 | 100 | 0.23 | 12.0 | | | | |
| KП746A | IRF540 | 100 | 0.077 | 28.0 | ±20 | 150 | 2.0...4.0 | TO-220 |
| KП746Б | IRF541 | 80 | 0.077 | 28.0 | | | | |
| KП746B | IRF542 | 100 | 0.1 | 25.0 | | | | |
| KП747A | IRFP150 | 100 | 0.055 | 41.0 | ±20 | 230 | 2.0...4.0 | TO-218 |
| KП748A | IRF610 | 200 | 1.5 | 3.3 | ±20 | 36 | 2.0...4.0 | TO-220 |
| KП748Б | IRF611 | 150 | 1.5 | 3.3 | | | | |
| KП748B | IRF612 | 200 | 2.4 | 2.6 | | | | |
| KП749A | IRF620 | 200 | 0.8 | 5.2 | ±20 | 50 | 2.0...4.0 | TO-220 |
| KП749Б | IRF621 | 150 | 0.8 | 5.2 | | | | |
| KП749B | IRF622 | 200 | 1.2 | 4.0 | | | | |
| KП737A | IRF630 | 200 | 0.4 | 9.0 | ±20 | 74 | 2.0...4.0 | TO-220 |
| KП737Б | IRF634 | 250 | 0.45 | 8.1 | | | | |
| KП737B | IRF635 | 200 | 0.68 | 6.5 | | | | |
| KП750A | IRF640 | 200 | 0.18 | 18.0 | ±20 | 125 | 2.0...4.0 | TO-220 |
| KП750Б | IRF641 | 150 | 0.18 | 18.0 | | | | |
| KП750B | IRF642 | 200 | 0.22 | 16.0 | | | | |
| KП731A | IRF710 | 400 | 3.6 | 2.0 | ±20 | 36 | 2.0...4.0 | TO-220 |
| KП731Б | IRF711 | 350 | 3.6 | 2.0 | | | | |
| KП731B | IRF712 | 400 | 5.0 | 1.7 | | | | |
| KП751A | IRF720 | 400 | 1.8 | 3.3 | ±20 | 50 | 2.0...4.0 | TO-220 |
| KП751Б | IRF721 | 350 | 1.8 | 3.3 | | | | |
| KП751B | IRF722 | 400 | 2.5 | 2.8 | | | | |
| KП752A | IRF730 | 400 | 1.0 | 5.5 | ±20 | 74 | 2.0...4.0 | TO-220 |
| KП752Б | IRF731 | 350 | 1.0 | 5.5 | | | | |
| KП752B | IRF732 | 400 | 1.5 | 4.5 | | | | |
| <i>Pilot Production</i> | | | | | | | | |
| KП753A | IRF830 | 500 | 1.5 | 4.5 | ±20 | 74 | 2.0...4.0 | TO-220 |
| KП753Б | IRF831 | 450 | 1.5 | 4.5 | | | | |
| KП753B | IRF832 | 500 | 2.0 | 4.0 | | | | |
| <i>Pilot Production</i> | | | | | | | | |
| KП771A | STP40N10 | 100 | 0.04 | 40 | ±20 | 150 | 2.0...4.0 | TO-220 |
| KП776A | IRF740 | 400 | 0.55 | 10.0 | ±20 | 125 | 2.0...4.0 | TO-220 |
| KП776Б | IRF741 | 350 | 0.55 | 10.0 | | | | |
| KП776B | IRF742 | 400 | 0.8 | 8.3 | | | | |
| KП776Г | IRF744 | 450 | 0.63 | 8.8 | | | | |
| <i>Pilot Production</i> | | | | | | | | |

● **Power N-Channel MOSFETs** (continued)

| Part | Pin to Pin Compatibility | Vds max, V | Rds (on), Ohm | Id max, A | Vgs max, V | P max, W | Vgs (th), V | Package |
|--------------------------------|--------------------------|------------|---------------|-----------|------------|----------|-------------|---------|
| КП777А | IRF840 | 500 | 0.85 | 8.0 | ±20 | 125 | 2.0...4.0 | TO-220 |
| КП777Б | IRF841 | 450 | 0.85 | 8.0 | | | | |
| КП777В | IRF842 | 500 | 1.1 | 7.0 | | | | |
| <i>Pilot Production</i> | | | | | | | | |
| КП778А | IRFP250 | 200 | 0.085 | 30.0 | ±20 | 190 | 2.0...4.0 | TO-220 |
| КП779А | IRFP450 | 500 | 0.4 | 14.0 | ±20 | 190 | 2.0...4.0 | TO-220 |
| <i>Pilot Production</i> | | | | | | | | |
| КП780А | IRF820 | 500 | 3.0 | 2.5 | ±20 | 50 | 2.0...4.0 | TO-220 |
| КП780Б | IRF821 | 450 | 3.0 | 2.5 | | | | |
| КП780В | IRF822 | 500 | 4.0 | 2.2 | | | | |
| КП781А | IRFP350 | 400 | 0.3 | 16.0 | ±20 | 190 | 2.0...4.0 | TO-220 |
| <i>Pilot Production</i> | | | | | | | | |
| КП783А | IRF3205 | 55 | 0.008 | 70.0 | ±20 | 200 | 2.0...4.0 | TO-220 |
| <i>Pilot Production</i> | | | | | | | | |
| КП786А <i>Pilot Production</i> | BUZ80А | 800 | 3.0 | 4.0 | ±20 | 100 | 2.0...4.0 | TO-220 |
| КП787А <i>Pilot Production</i> | BUZ91А | 600 | 0.9 | 8.0 | ±20 | 150 | 2.0...4.0 | TO-220 |
| КП789А <i>Pilot Production</i> | BUZ111S | 320 | 0.008 | 80.0 | ±20 | 250 | 2.1...4.0 | TO-220 |

● **Power P-Channel MOSFETs**

| Part | Pin to Pin Compatibility | Vds max, V | Rds (on), Ohm | Id max, A | Vgs max, V | P max, W | Vgs (th), V | Package |
|---------------------------------|--------------------------|------------|---------------|-----------|------------|----------|-------------|---------|
| КП784А | IRF9Z34 | -60 | 0.14 | -18.0 | ±20 | 88 | -2.0...-4.0 | TO-220 |
| КП785А | IRF9540 | -100 | 0.20 | -19.0 | ±20 | 150 | -2.0...-4.0 | TO-220 |
| КП796А <i>Under Development</i> | IRF9634 | -250 | 1.0 | -4.3 | ±20 | 74 | -2.0...-4.0 | TO-220 |



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