

FAIRCHILD IGBTs, JFETs and Power MOSFETs



Products may be RoHS compliant. Check mouser.com for RoHS status.

IGBTs

◆ Surface Mount Device



For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | | Package | BV _{CES} Min (V) | I _C (A) | V _{CE} Typ (V) | Price Each | | | |
|------------------|----------------------|----------|------------------------------|-----------------------|-------------------------------|------------|-------|-------|------|
| Mfr. | Mfr. Part No. | | | | | 1 | 25 | 100 | 250 |
| ◆ | 512—FGP550N33BTTU | TO-220F | 330 | 50 | 1.2 | 1.41 | 1.25 | 1.13 | .978 |
| ◆ | 512—FGA90N33ATDTU | TO-3P | 330 | 90 | 1.1 | 2.57 | 2.29 | 2.06 | 1.83 |
| ◆ | 512—FGA180N33ATDTU | TO-3P | 330 | 180 | 1.1 | 3.51 | 3.15 | 2.88 | 2.60 |
| ◆ | 512—FGPF4533 | TO-220F | 330 | 200 | 1.15 | 1.30 | 1.05 | .84 | .635 |
| ◆ | 512—FGPF4633TU | TO-220F | 330 | 300 | 1.1 | 1.24 | .95 | .945 | .84 |
| ◆ | 512—FGD4536TM | TO-252 | 360 | 220 | 125 | 1.05 | .88 | .70 | .53 |
| ◆ | 512—FGD3040G2_F085 | TO-252 | 400 | 23.2 | 1.15 | 1.43 | 1.14 | .86 | .80 |
| ◆ | 512—FGD3440G2_F085 | TO-252 | 400 | 26.9 | 1.10 | 1.63 | 1.30 | .98 | .91 |
| ◆ | 512—FGPF10N60UNDF | TO-220F | 600 | 10 | 2.0 | 1.38 | 1.10 | .83 | .77 |
| ◆ | 512—FGB5N60UNDF | TO-263AB | 600 | 10 | 2.4 | 1.44 | 1.20 | .96 | .72 |
| ◆ | 512—FGB7N60UNDF | TO-263AB | 600 | 14 | 2.1 | 1.35 | 1.12 | .90 | .68 |
| ◆ | 512—FGPF15N60UNDF | TO-220F | 600 | 15 | 2.2 | 1.55 | 1.24 | .93 | .87 |
| ◆ | 512—HGT1S20N60C3S9A | TO-263-2 | 600 | 20 | 1.4 | 3.38 | 3.03 | 2.68 | 2.42 |
| ◆ | 512—FGP20N60UFDTU | TO-220 | 600 | 20 | 1.8 | 3.04 | 2.72 | 2.49 | 2.25 |
| ◆ | 512—FGAF40N60UFDTU | TO-3PF | 600 | 20 | 2.3 | 4.61 | 3.70 | 3.37 | 3.01 |
| ◆ | 512—FGP10N60UNDF | TO-220 | 600 | 20 | 2.3 | 1.36 | 1.08 | .82 | .76 |
| ◆ | 512—SGP23N60UFTU | TO-220AB | 600 | 23 | 2.1 | 1.79 | 1.59 | 1.39 | 1.24 |
| ◆ | 512—HGTG30N60B3 | TO-247 | 600 | 30 | 1.45 | 5.62 | 4.91 | 4.17 | 3.97 |
| ◆ | 512—FGP15N60UNDF | TO-220 | 600 | 30 | 2.7 | 1.50 | 1.20 | .90 | .84 |
| ◆ | 512—FGH40N60UFDTU | TO-247 | 600 | 40 | 1.8 | 4.47 | 4.25 | 3.66 | 3.31 |
| ◆ | 512—FGH40N60UFTU | TO-247AB | 600 | 40 | 1.8 | 3.88 | 3.49 | 3.18 | 2.87 |
| ◆ | 512—FGH80N60FDTU | TO-247 | 600 | 40 | 1.8 | 3.92 | 3.55 | 3.21 | 2.90 |
| ◆ | 512—HGTG20N60A4 | TO-247 | 600 | 40 | 1.8 | 3.83 | 3.22 | 2.97 | 2.81 |
| ◆ | 512—HGTG20N60A4D | TO-247 | 600 | 40 | 1.8 | 6.20 | 3.96 | 3.46 | 3.28 |
| ◆ | 512—HGTG20N60A4 | TO-220AB | 600 | 40 | 1.8 | 5.26 | 4.76 | 4.31 | 3.90 |
| ◆ | 512—FGB40N60SM | TO-263AB | 600 | 40 | 1.9 | 2.41 | 1.93 | 1.50 | 1.43 |
| ◆ | 512—FGH40N60SFDTU | TO-247 | 600 | 40 | 2.3 | 4.25 | 3.50 | 3.48 | 3.14 |
| ◆ | 512—SGL50N60UFDTU | TO-3P | 600 | 50 | 2.2 | 5.90 | 5.30 | 4.71 | 4.32 |
| ◆ | 512—HGTG30N60A4 | TO-247 | 600 | 60 | 1.8 | 7.98 | 7.25 | 6.56 | 6.03 |
| ◆ | 512—FGH60N60UFDTU | TO-247 | 600 | 60 | 1.9 | 7.40 | 7.20 | 6.08 | 5.59 |
| ◆ | 512—FGH60N60SFDTU | TO-247 | 600 | 60 | 2.3 | 7.53 | 6.55 | 6.19 | 5.69 |
| ◆ | 512—HGTG40N60A4 | TO-247 | 600 | 63 | 1.7 | 11.36 | 10.12 | 9.65 | 8.80 |
| ◆ | 512—FGH75N60UFTU | TO-247 | 600 | 75 | 1.9 | 10.10 | 9.21 | 8.30 | 6.95 |
| ◆ | 512—FGH40N60SMD | TO-247 | 600 | 80 | 2.1 | 4.18 | 3.35 | 2.62 | 2.48 |
| ◆ | 512—FGA40N65SMD | TO-3PN | 650 | 80 | 2.5 | 3.49 | 2.79 | 2.17 | 2.06 |
| ◆ | 512—FGA60N65SMD | TO-3PN | 650 | 120 | 1.9 | 4.70 | 3.76 | 2.93 | 2.78 |
| ◆ | 512—FGL60N100BNTD | TO-3P | 1000 | 42 | 2.5 | 4.93 | 4.41 | 3.89 | 3.54 |
| ◆ | 512—FGA50N100BNTD2 | TO-3P | 1000 | 50 | 1.5 | 5.62 | 4.89 | 4.61 | 4.16 |
| ◆ | 512—HGT5N120BND | TO-220AB | 1200 | 10 | 2.45 | 2.60 | 2.32 | 2.03 | 1.80 |
| ◆ | 512—HGTG10N120BND | TO-247 | 1200 | 17 | 2.45 | 3.96 | 3.46 | 2.94 | 2.80 |
| ◆ | 512—FGA25N120ANTDU | TO-3PN | 1200 | 25 | 2.0 | 4.47 | 4.21 | 3.66 | 3.31 |
| ◆ | 512—HGTG18N120BND | TO-247 | 1200 | 26 | 2.45 | 5.90 | 5.15 | 4.38 | 4.17 |
| ◆ | 512—FGA30N120FTDTU | TO-3PN | 1200 | 30 | 1.6 | 5.62 | 4.79 | 4.61 | 4.16 |
| ◆ | 512—HGTG27N120BN | TO-247 | 1200 | 34 | 2.45 | 9.59 | 8.38 | 7.12 | 6.78 |
| ◆ | 512—HGTG10N120BN | TO-220AB | 1200 | 35 | 2.45 | 2.72 | 2.44 | 2.16 | 1.95 |
| ◆ | 512—HGT15N10N120BNST | TO-263AB | 1200 | 35 | 2.7 | 2.99 | 2.69 | 2.45 | 2.21 |
| ◆ | 512—FGA20S120M | TO-3PN | 1200 | 40 | 1.55 | 2.92 | 2.59 | 2.39 | 2.16 |
| ◆ | 512—FGH40N120ANTU | TO-247 | 1200 | 40 | 2.6 | 9.56 | 8.88 | 7.86 | 7.22 |
| ◆ | 512—FGL40N120ANDTU | TO-264 | 1200 | 40 | 2.6 | 12.08 | 11.11 | 10.26 | 9.36 |
| ◆ | 512—HGTG11N120CND | TO-247 | 1200 | 43 | 2.1 | 3.85 | 3.47 | 3.16 | 2.85 |
| ◆ | 512—FGH30N120FTDTU | TO-247 | 1200 | 60 | 1.6 | 4.04 | 3.59 | 3.14 | 2.98 |

JFETs

◆ Surface Mount Device

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | | Package | BV _{GSS} (V) | P _D (mW) | I _{DSS} (mA) | | Price Each | | | |
|------------------|---------------|---------|--------------------------|------------------------|-----------------------|------|------------|------|------|------|
| Mfr. | Mfr. Part No. | | | | Min. | Max. | 1 | 25 | 100 | 250 |
| N-Channel | | | | | | | | | | |
| ◆ | 512—MMBF5484 | SOT-23 | 25 | 225 | 1 | 5 | .18 | .166 | .141 | .107 |
| ◆ | 512—MMBF5485 | SOT-23 | 25 | 225 | 4 | 10 | .40 | .22 | .17 | .119 |
| ◆ | 512—MMBF5486 | SOT-23 | 25 | 225 | 8 | 20 | .18 | .166 | .141 | .107 |
| ◆ | 512—MMBF5457 | SOT-23 | 25 | 350 | 1 | 5 | .41 | .34 | .267 | .192 |
| ◆ | 512—MMBF5458 | SOT-23 | 25 | 350 | 2 | 9 | .51 | .36 | .216 | .153 |
| ◆ | 512—MMBF5459 | SOT-23 | 25 | 350 | 4 | 16 | .16 | .142 | .128 | .112 |
| ◆ | 512—MMBFJ310 | SOT-23 | 25 | 350 | 24 | 60 | .28 | .242 | .218 | .164 |
| ◆ | 512—MMBF5434 | SSOT-3 | 25 | 350 | 30 | ---- | .41 | .29 | .254 | .213 |
| ◆ | 512—MMBFJ108 | SSOT-3 | 25 | 350 | 80 | ---- | .41 | .29 | .254 | .213 |
| ◆ | 512—MMBFJ110 | SSOT-3 | 25 | 460 | 10 | ---- | .31 | .27 | .23 | .19 |

JFETs (CONT.)

◆ Surface Mount Device

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | | Package | BV _{GSS} (V) | P _D (mW) | I _{DSS} (mA) | | Price Each | | | |
|-------------------|---------------|----------|--------------------------|------------------------|-----------------------|------|------------|------|------|------|
| Mfr. | Mfr. Part No. | | | | Min. | Max. | 1 | 25 | 100 | 250 |
| N-Channel (Cont.) | | | | | | | | | | |
| ◆ | 512—J109 | TO-92-3 | 25 | 625 | 40 | ---- | .37 | .33 | .271 | .225 |
| ◆ | 512—J107 | TO-92-3 | 25 | 625 | 50 | ---- | .54 | .46 | .393 | .344 |
| ◆ | 512—J105 | TO-92-3 | 25 | 1000 | 100 | ---- | .54 | .46 | .393 | .344 |
| ◆ | 512—MMBF4416 | SOT-23 | 30 | 225 | 5 | 15 | .40 | .22 | .17 | .119 |
| ◆ | 512—MMBF4393 | SOT-23 | 30 | 350 | 5 | 30 | .19 | .165 | .149 | .13 |
| ◆ | 512—BF256B | TO-92-3 | 30 | 350 | 6 | 13 | .62 | .41 | .196 | .14 |
| ◆ | 512—MMBF4392 | SOT-23 | 30 | 350 | 25 | 75 | .19 | .165 | .149 | .13 |
| ◆ | 512—MMBF4391 | SOT-23 | 30 | 350 | 50 | 150 | .19 | .165 | .149 | .13 |
| ◆ | 512—MMBF4416A | SOT-23 | 35 | 225 | 5 | 15 | .40 | .22 | .17 | .119 |
| ◆ | 512—MMBFJ113 | SOT-23 | 35 | 350 | 2 | ---- | .24 | .213 | .191 | .167 |
| ◆ | 512—MMBFJ112 | SOT-23 | 35 | 350 | 5 | ---- | .24 | .213 | .191 | .167 |
| ◆ | 512—MMBFJ111 | SOT-23 | 35 | 350 | 20 | ---- | .24 | .213 | .191 | .167 |
| ◆ | 512—J113 | TO-92-3 | 35 | 625 | 2 | ---- | .19 | .174 | .153 | .12 |
| ◆ | 512—J112 | TO-92-3 | 35 | 625 | 5 | ---- | .19 | .174 | .153 | .12 |
| ◆ | 512—J111 | TO-92-3 | 35 | 625 | 20 | ---- | .16 | .155 | .146 | .099 |
| ◆ | 512—MMBF4117 | SOT-23 | 40 | 225 | 0.03 | 0.09 | .23 | .199 | .179 | .156 |
| ◆ | 512—MMBF4118 | SOT-23 | 40 | 225 | 0.08 | 0.24 | .48 | .28 | .225 | .162 |
| ◆ | 512—MMBF4119 | SOT-23-3 | 40 | 225 | 0.2 | 0.6 | .48 | .28 | .225 | .162 |
| ◆ | 512—BSR57 | SOT-23-3 | 40 | 250 | 20 | 100 | .55 | .386 | .233 | .165 |
| ◆ | 512—MMBFJ201 | SOT-23 | 40 | 350 | 0.2 | 1 | .26 | .224 | .202 | .177 |
| ◆ | 512—MMBFJ202 | SOT-23-3 | 40 | 350 | 0.9 | 4.5 | .30 | .274 | .241 | .189 |
| P-Channel | | | | | | | | | | |
| ◆ | 512—MMBFJ177 | SOT-23 | 30 | 225 | 1.5 | 20 | .30 | .264 | .238 | .208 |
| ◆ | 512—MMBFJ176 | SOT-23 | 30 | 225 | 2 | 25 | .32 | .279 | .252 | .206 |
| ◆ | 512—MMBFJ270 | SOT-23 | 30 | 225 | 2 | 15 | .33 | .29 | .261 | .228 |
| ◆ | 512—MMBFJ271 | SOT-23 | 30 | 225 | 6 | 50 | .23 | .20 | .178 | .133 |
| ◆ | 512—MMBFJ175 | SOT-23 | 30 | 225 | 7 | 60 | .49 | .32 | .262 | .218 |
| ◆ | 512—MMBF5460 | SOT-23 | 40 | 225 | 1 | 5 | .50 | .28 | .216 | .151 |
| ◆ | 512—MMBF5461 | SOT-23 | 40 | 225 | 2 | 9 | .50 | .28 | .216 | .151 |
| ◆ | 512—MMBF5462 | SOT-23 | 40 | 225 | 4 | 16 | .19 | .165 | .148 | .13 |

LOW POWER MOSFETs



◆ Surface Mount Device

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | | Package | V _{DS} (V) | R _{DS} (on) (mΩ) | Q _g (nC) | I _D (A) | P _D (W) | Price Each | | | |
|------------------|----------------|------------|------------------------|---------------------------------|------------------------|-----------------------|-----------------------|------------|------|------|------|
| Mfr. | Mfr. Part No. | | | | | | | 1 | 25 | 100 | 250 |
| Single N-Channel | | | | | | | | | | | |
| ◆ | 512—FDY301NZ | SC-89 | 20 | 5000 | 0.8 | 0.2 | 0.625 | .39 | .32 | .254 | .183 |
| ◆ | 512—FDY300NZ | SC-89-3L | 20 | 700 | 0.8 | 0.6 | 625 | .41 | .35 | .302 | .261 |
| ◆ | 512—FDV305N | SOT-23 | 20 | 220 | 1.1 | 0.9 | 0.35 | .20 | .171 | .145 | .116 |
| ◆ | 512—NDS331N | SOT-23 | 20 | 160 | 3.5 | 1.3 | 0.5 | .24 | .20 | .169 | .135 |
| ◆ | 512—FDG327N | SC-70-6 | 20 | 90 | 4.5 | 1.5 | 0.42 | .46 | .41 | .348 | .278 |
| ◆ | 512—FDN335N | SOT-23 | 20 | 70 | 3.5 | 1.7 | 0.5 | .22 | .182 | .155 | .124 |
| ◆ | 512—FDG311N | SC-70-6 | 20 | 115 | 3 | 1.9 | 0.75 | .32 | .271 | .23 | .184 |
| ◆ | 512—FDN327N | SSOT-3 | 20 | 70 | 4.5 | 2.0 | 0.5 | .38 | .328 | .278 | .222 |
| ◆ | 512—FDG410NZ | SC-70-6 | 20 | 70 | 5.1 | 2.2 | 0.42 | .52 | .39 | .30 | .22 |
| ◆ | 512—FDN339AN | SSOT-3 | 20 | 35 | 7 | 3.0 | 0.5 | .41 | .342 | .29 | .232 |
| ◆ | 512—FDMA420NZ | MicroFET-6 | 20 | 30 | 8.8 | 5.7 | 2.4 | .57 | .50 | .436 | .378 |
| ◆ | 512—FDC637BNZ | SSOT-6 | 20 | 24 | 8 | 6.2 | 1.6 | .76 | .74 | .60 | .44 |
| ◆ | 512—FDC637AN | SSOT-6 | 20 | 24 | 10.5 | 6.2 | 1.6 | .54 | .512 | .475 | .423 |
| ◆ | 512—FDME410NZT | MicroFET-2 | 20 | 26 | 9.2 | 7.0 | 2.1 | .51 | .42 | .34 | .257 |
| ◆ | 512—FDMA0104 | MicroFET-2 | 20 | 14.5 | 17.5 | 9.4 | 1.9 | .96 | .72 | .54 | .40 |
| ◆ | 512—FDMA410NZ | MicroFET-6 | 20 | 23 | 10 | 9.5 | 2.4 | .45 | .422 | .372 | .274 |
| ◆ | 512—FDS6570A | SOIC-8 | 20 | 7.5 | 47 | 15 | 2.5 | 1.57 | 1.41 | 1.21 | .964 |
| ◆ | 512—FDS6574A | SOIC-8 | 20 | 6 | 75 | 16 | 2.5 | 1.27 | 1.26 | 1.09 | .957 |
| ◆ | 512—FDMC8554 | Power-33 | 20 | 5 | | | | | | | |