

MOSFETS

T-39-13

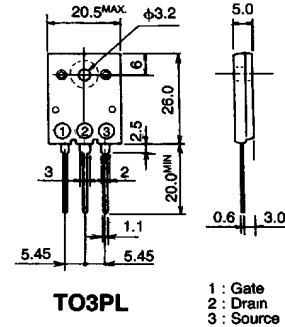


F-II SERIES (toff 30% REDUCED, VGS=30V) (cont'd.)

| Device Type | Ratings | | | Characteristics (Tc=25°C) | | | | Package |
|-------------|----------------------|--------------------|--------------------|---------------------------|---------------------|----------------------|-----------------------|---------|
| | V _{DSS} (V) | I _D (A) | P _D (W) | R _{DS(ON)} (Ω) | g _{fs} (S) | t _{on} (ns) | t _{off} (ns) | |
| 2SK1082 | 900 | 6 | 125 | 2.8 | 4.5 | 145 | 250 | TO3P |
| 2SK962 | 900 | 8 | 150 | 2 | 6 | 280 | 460 | TO3P |
| 2SK1217 | 900 | 8 | 100 | 2 | 6 | 280 | 460 | TO3PF |
| 2SK1512 | 900 | 10 | 150 | 1.20 | 6.0 | 240 | 525 | TO3P |
| 2SK1511 | 1000 | 5 | 100 | 3.00 | 3.0 | 121 | 285 | TO3P |

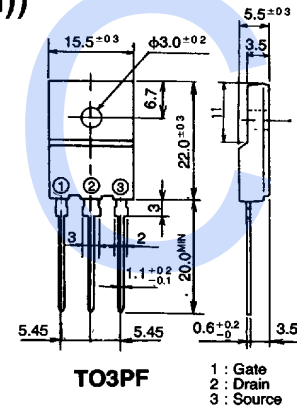
FAP SERIES (High Avalanche Ruggedness)

| Device Type | Ratings | | | Characteristics (Tc=25°C) | | | | Package |
|-------------|----------------------|--------------------|----|---------------------------|---------------------|----------------------|-----------------------|---------|
| | V _{DSS} (V) | I _D (A) | PD | R _{DS(ON)} (Ω) | g _{fs} (S) | t _{on} (ns) | t _{off} (ns) | |
| 2SK1008-01 | 500 | 4.5 | — | 2.20 | 3 | 60 | 130 | TO220 |
| 2SK1010-01 | 500 | 6 | — | 1.60 | 4 | 70 | 130 | TO220 |
| 2SK1012-01 | 500 | 10 | — | .90 | 6.5 | 110 | 240 | TO3P |
| 2SK1014-01 | 500 | 12 | — | .74 | 8 | 140 | 240 | TO3P |
| 2SK1016-01 | 500 | 15 | — | .55 | 10 | 170 | 330 | TO3P |
| 2SK1018-01 | 500 | 18 | — | .45 | 10 | 170 | 330 | TO3P |
| 2SK1554-01 | 650 | 3 | 30 | 4.50 | 3.0 | 90 | 188 | TO220F |
| 2SK1553-01 | 650 | 5 | 40 | 2.50 | 5.0 | 85 | 280 | TO220F |
| 2SK951-01 | 800 | 2.5 | — | 7.00 | 1.8 | 60 | 110 | TO220F |
| 2SK1023-01 | 800 | 4 | — | 4.50 | 4 | 95 | 170 | TO220 |
| 2SK1171-01 | 800 | 4 | — | 4.50 | 4 | 95 | 170 | TO3P |
| 2SK1081-01 | 800 | 7 | — | 2.20 | 4.5 | 145 | 250 | TO3P |
| 2SK956-01 | 800 | 9 | — | 1.50 | 6 | 280 | 460 | TO3P |
| 2SK957-01 | 900 | 2 | — | 8.50 | 1.8 | 60 | 110 | TO220F |
| 2SK1548-01 | 900 | 3.5 | 40 | 5.50 | 4.0 | 145 | 255 | TO220F |
| 2SK1024-01 | 900 | 3.5 | — | 5.50 | 4 | 95 | 170 | TO220 |
| 2SK1172-01 | 900 | 3.5 | — | 5.50 | 4 | 95 | 170 | TO3P |
| 2SK1082-01 | 900 | 6 | — | 2.80 | 4.5 | 145 | 250 | TO3P |
| 2SK962-01 | 900 | 8 | — | 2.00 | 6 | 280 | 460 | TO3P |



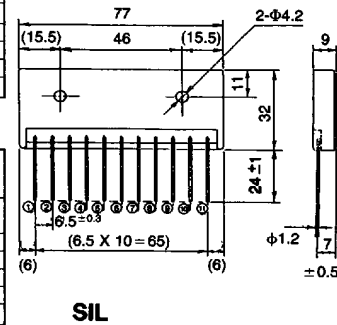
F-III SERIES (LOGIC LEVEL FETs, VGS=4V, LOW RDS(ON))

| Device Type | Ratings | | | Characteristics (Tc=25°C) | | | | | Package |
|-------------|----------------------|--------------------|--------------------|---------------------------|----------------------|---------------------|----------------------|-----------------------|---------|
| | V _{DSS} (V) | I _D (A) | P _D (W) | R _{DS(ON)} (Ω) | | g _{fs} (S) | t _{on} (ns) | t _{off} (ns) | |
| | | | | V _{GS} =4V | V _{GS} =10V | | | | |
| 2SK1505 | 30 | 35 | 40 | 0.037 | 0.022 | 17.0 | 238 | 720 | TO220F |
| 2SK1388 | 30 | 35 | 60 | 0.037 | 0.022 | 17.0 | 188 | 720 | TO220 |
| 2SK1083 | 60 | 8 | 20 | 0.35 | 0.22 | 6 | 37 | — | TO220F |
| 2SK1096 | 60 | 13 | 30 | 0.19 | 0.12 | 11 | 40 | — | TO220F |
| 2SK1086 | 60 | 20 | 35 | 0.11 | 0.07 | 15 | 50 | — | TO220F |
| 2SK1387 | 60 | 35 | 40 | 0.056 | 0.035 | 18.0 | 99 | 760 | TO220F |
| 2SK1089 | 60 | 35 | 80 | 0.056 | 0.035 | 18 | 66 | — | TO3P |
| 2SK1389 | 60 | 50 | 125 | 0.040 | 0.025 | 36.0 | 230 | 850 | TO3P |
| 2SK1390 | 60 | 50 | 80 | 0.040 | 0.025 | 36.0 | 230 | 850 | TO3PF |
| 2SK1084 | 100 | 5 | 20 | 0.7 | 0.5 | 4.5 | 35 | — | TO220F |
| 2SK1087 | 100 | 8 | 30 | 0.39 | 0.28 | 7 | 40 | — | TO220F |
| 2SK1087 | 100 | 12 | 35 | 0.24 | 0.17 | 10 | 62 | — | TO220F |
| 2SK1090 | 100 | 20 | 80 | 0.12 | 0.08 | 11 | 55 | — | TO3P |
| 2SK1085 | 150 | 3 | 20 | 1.17 | 0.9 | 3 | 33 | — | TO220F |
| 2SK1098 | 150 | 6 | 30 | 0.65 | 0.50 | 6 | 50 | — | TO220F |
| 2SK1088 | 150 | 9 | 35 | 0.4 | 0.3 | 10 | 50 | — | TO220F |
| 2SK1091 | 150 | 15 | 80 | 0.2 | 0.15 | 18 | 55 | — | TO3P |



F-V SERIES (FRED MOSFETS)

| Device Type | Ratings | | | Characteristics (Tc=25°C) | | | Package |
|-------------|----------------------|--------------------|--------------------|---|---------------------|----------------------|---------|
| | V _{DSS} (V) | I _D (A) | P _D (W) | R _{DS(ON)} (Ω) V _{GS} =10V | g _{fs} (S) | t _{on} (ns) | |
| 2SK1276 | 250 | 20 | 100 | .20 | 12 | 100 | TO3P |
| 2SK1277 | 250 | 30 | 150 | .12 | 20 | 100 | TO3P |
| 2SK1278 | 500 | 10 | 100 | 1.10 | 8 | 150 | TO3P |
| 2SK1279 | 500 | 15 | 125 | .58 | 13 | 150 | TO3P |
| 2SK1280 | 500 | 18 | 150 | .50 | 14 | 150 | TO3P |



MOSFET MODULES

| Device Type | Ratings | | | Characteristics (Tc=25°C) | | | | Package |
|-------------|----------------------|--------------------|--------------------|---------------------------|---------------------|----------------------|-----------------------|------------|
| | V _{DSS} (V) | I _D (A) | P _D (W) | R _{DS(ON)} (Ω) | g _{fs} (S) | t _{on} (ns) | t _{off} (ns) | |
| 2M150F-050 | 500 | 50 | 400 | 0.11 | 45 | 530 | 780 | Module |
| 2M150S-050 | 500 | 50 | 400 | 0.11 | 45 | 530 | 780 | Module |
| 2M1100F-025 | 250 | 100 | 400 | 0.032 | 55 | — | — | Module |
| 2M1100F-050 | 500 | 100 | 800 | .062 | 105 | 185 | 630 | M210 |
| 2M1200F-025 | 250 | 200 | 800 | .015 | 150 | 175 | 600 | M210 |
| 6M115FS-050 | 500 | 15 | 60 | 0.40 | 13 | 130 | 560 | SIL Module |
| 6M120FS-025 | 250 | 20 | 40 | 0.16 | 12 | 80 | 300 | SIL Module |

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