

FAST EFFICIENT RECTIFIERS

| I_o (A) | 0.50 | 0.60 | 1.0 | | | | | |
|--|-------------------------------|-------------------|-------------------|--------------------------|-------------------|-------------------------------|-------------------|-------------------|
| CASE TYPE | DO-213AA MINI-MELF | UG06 | DO-204AL | DO-204AP | | DO-204AL | DO-204AP | |
| V_{RRM} (VOLTS) | | | | | | | | |
| 50 | EGL34A | UG06A# | EBP10A | UF4001# | FE1A | | UG1A# | GI1001 |
| 100 | EGL34B | UG06B# | EBP10B | UF4002# | FE1B | | UG1B# | GI1002 |
| 150 | EGL34C | UG06C# | EBP10C | | FE1C | | UG1C# | GI1003 |
| 200 | EGL34D | UG06D# | EBP10D | UF4003# | FE1D | | UG1D# | GI1004 |
| 300 | EGL34E | | EBP10E | | | | | |
| 400 | EGL34G | | EBP10G | UF4004# | | | | |
| 500 | | | | | | | | |
| 600 | | | | UF4005# | | | | |
| 800 | | | | UF4006# | | BYV26D | | |
| 1000 | | | | UF4007# | | BYV26E | | |
| MAX V_F (volts) | 1.25 / 1.35 | 0.95 | 0.95 / 1.25 | 1.0 / 1.7 | 0.95 | 2.5 | 0.95 | 0.975 |
| t_{rr} (ns) | 50.0 (*ckt #1) | 15.0 (*ckt #2) | 50.0 (*ckt #1) | 50.0 / 75.0 (*ckt #1) | 35.0 (*ckt #1) | 75.0 (*ckt #1) | 15.0 (*ckt #2) | 25.0 (*ckt #1) |
| I_R (μA) T_A=+25°C | 5.0 | 5.0 | 5.0 | 10.0 | 2.0 | 5.0 | 5.0 | 2.0 |
| I_R (μA) T_A=+100°C | | 100.0 | | 50.0 | 50.0 | | 200.0 | 50.0 |
| I_R (μA) T_A=+125°C | 50.0 | | | | | | | |
| I_R (μA) T_A=+150°C | | | 100.0 | | | 15.0 T _J =165°C | | |
| SURGE (A) | 10.00 | 40.0 | 30.0 | 30.0 | 30.0 | 30.0 | 40.0 | 30.0 |

Notes:

■ Shaded area indicates SUPERRECTIFIER®

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*Circuits are on page 95

FAST EFFICIENT RECTIFIERS (cont.)

| I_o (A) | 1.0 | | | 1.5 | 2.0 | | | | | |
|---|------------------------------------|----------------------------------|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| CASE TYPE | DO-213AB MELF | DO-214AC SMA | | DO-214BA | GP20 | DO-204AC | DO-204AP | | DO-204AC | DO-214AA SMB |
| V_{RRM} (VOLTS) | | | | | | | | | | |
| 50 | EGL41A ⁽¹⁾ BYM12-50 | ES1A# | US1A# | EGP1A | | EGP20A | FE2A | BYV27-50 | UG2A# | ES2A# |
| 100 | EGL41B ⁽¹⁾ BYM12-100 | ES1B# | US1B# | EGP1B | | EGP20B | FE2B | BYV27-100 | UG2B# | ES2B# |
| 150 | EGL41C ⁽¹⁾ BYM12-150 | ES1C# | | EGP1C | | EGP20C | FE2C | BYV27-150 | UG2C# | ES2C# |
| 200 | EGL41D ⁽¹⁾ BYM12-200 | ES1D# | US1D# | EGP1D | | EGP20D | FE2D | BYV27-200 | UG2D# | ES2D# |
| 300 | EGL41F ⁽¹⁾ BYM12-300 | | | | | EGP20F | | | | ES2F |
| 400 | EGL41G ⁽¹⁾ BYM12-400 | | US1G# | | SUF15G# | EGP20G | | | | ES2G |
| 600 | | | US1J# | | SUF15J# | | | | | |
| MAX V _F (volts) | 1.0/1.25 | 0.92 | 1.0/1.7 | 1.0 | 1.80 | 0.95/1.25 | 0.95 | 1.07 | 0.95 | 0.90/ |
| t _r (ns) | 50.0 ^(*) (*ckt #1) | 15.0 ^(*) (*ckt #1) | 50.0/75.0 ^(*) (*ckt #1) | 50.0 ^(*) (*ckt #1) | 35.0 ^(*) (*ckt #1) | 50.0 ^(*) (*ckt #1) | 35.0 ^(*) (*ckt #1) | 25.0 ^(*) (*ckt #1) | 15.0 ^(*) (*ckt #2) | 20.0/ ^(*) (*ckt #1) |
| I _R (μA) T _A =+25°C | 5.0 | 5.0 | 10.0 | 5.0 | 10.0 | 5.0 | 2.0 | 1.0 | 5.0 | 10.0 |
| I _R (μA) T _A =+100°C | | 100 | 50 | | 100 | | 50.0 | | 200.0 | 350.0 |
| I _R (μA) T _A =+125°C | 50.0 | | | 50.0 | | 100.0 | | | | |
| I _R (μA) T _A =+150°C | | | | | | | 50.0 | 150.0 | | |
| SURGE (A) | 30.0 | 30.0 | 30.0 | 30.0 | 50.0 | 75.0 | 50.0 | 30.0 | 50.0 | 50.0 |

Notes:








■ Shaded area indicates SUPERRECTIFIER®

⁽¹⁾ BYM12-XX numbers (European designations) are equivalent to the EGL41X series

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FAST EFFICIENT RECTIFIERS (cont.)

| Io (A) | | 3.0 | | | | | 3.5 | 4.0 |
|---|--------------------------|---|---|---|---|---|---|---|
| CASE TYPE | | DO-201AD | GP20 | P600 | G4 | DO-214AB | G3 | DO-201AD |
| VRRM (VOLTS) | |  |  |  |  |  |  |  |
| 50 | GI1101 | UF5400# | EGP30A | | FE3A | ES3A# | BYV28-50 | UG4A# |
| 100 | GI1102 | UF5401# | EGP30B | | FE3B | ES3B# | BYV28-100 | UG4B# |
| 150 | GI1103 | | EGP30C | | FE3C | ES3C# | BYV28-150 | UG4C# |
| 200 | GI1104 | UF5402# | EGP30D | | FE3D | ES3D# | BYV28-200 | UG4D# |
| 300 | | UF5403# | EGP30E | | | | | |
| 400 | | UF5404# | EGP30G | SUF30G# | | | | |
| 500 | | UF5405# | | | | | | |
| 600 | | UF5406# | | SUF30J# | | | | |
| 800 | | UF5407# | | | | | | |
| 1000 | | UF5408# | | | | | | |
| MAX V _F (volts) | 0.975/1.25 | 1.0 / 1.70 | 0.95 / 1.35 | 1.8/2.0 | 0.95 | 0.90 | 1.1 | 0.95 |
| t _{rr} (ns) | 25.0 / 50.0 (*ckt #1) | 50.0 / 75.0 (*ckt #1) | 50.0 (*ckt #1) | 35.0 (*ckt #1) | 35.0 (*ckt #1) | 20.0 (*ckt #1) | 30.0 (*ckt #1) | 20.0 (*ckt #2) |
| I _R (μA) T _A =+25°C | 2.0/10.0 | 10.0 | 5.0 | 10.0 | 5.0 | 10.0 | 1.0 | 5.0 |
| I _R (μA) T _A =+100°C | 50.0/200.0 | 50.0 | | 100.0 | 50.0 | 500 | | 300.0 |
| I _R (μA) T _A =+125°C | | | 100.0 | | | | | |
| I _R (μA) T _A =+150°C | | | | | 50.0 | | 150.0 | |
| SURGE (A) | 50 | 150.00 | 125.0 | 80.0 | 125.0 | 100.0 | 90.0 | 125.0 |




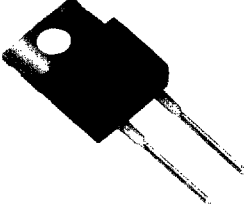

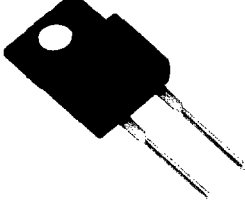
Notes:

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Uses glass passivated chips

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FAST EFFICIENT RECTIFIERS (cont.)

| I_o (A) | 5.0 | | 6.0 | 8.0 | | | 16.0 | |
|---|---|---|---|---|---|---|-------------------|--------------------------|
| CASE TYPE | GP20 | G4 | G4 | TO-220AC | TO-263AB "B" prefix ex. UGBXX | ITO-220AC "F" prefix ex. UGFXX | | |
| |  |  |  |  |  |  | | |
| V_{RRM} (VOLTS) | | | | | | | | |
| 50 | FE5A | FE5A | FE6A | UG8AT# | FES8AT# | GI1401# | BYW29-50# | FES16AT# |
| 100 | FE5B | FE5B | FE6B | UG8BT# | FES8BT# | GI1402# | BYW29-100# | FES16BT# |
| 150 | FE5C | FE5C | FE6C | UG8CT# | FES8CT# | GI1403# | BYW29-150# | FES16CT# |
| 200 | FE5D | FE5D | FE6D | UG8DT# | FES8DT# | GI1404# | BYW29-200# | FES16DT# |
| 300 | FE5E | | | UG8FT# | FES8FT# | | | FES16FT# |
| 400 | FE5F | | | UG8GT# | FES8GT# | | | FES16GT# |
| 500 | FE5H | | | UG8HT# | FES8HT# | | | FES16HT# |
| 600 | FE5J | | | UG8JT# | FES8JT# | | | FES16JT# |
| MAX V_F (volts) | 0.95 / 1.25 | 0.95 | 0.975 | 1.0 / 1.30 / 1.75 | 0.95 / 1.3 / 1.5 | 0.975 | 1.3 | 0.95 / 1.3 / 1.5 |
| t_{rr} (ns) | 50.0 (*ckt #1) | 35.0 (*ckt #1) | 35.0 (*ckt #1) | 20.0 / 25.0 (*ckt #1&2) | 35.0 / 50.0 (*ckt #1) | 35.0 (*ckt #1) | 25.0 (*ckt #2) | 35.0 / 50.0 (*ckt #1) |
| I_R (μA) T_A=+25°C | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 | 10.0 |
| I_R (μA) T_A=+100°C | | 50.0 | 50.0 | 300.0 | 100.0 | 150.0 | 100.0 | 500.0 |
| I_R (μA) T_A= +150°C | | | 50.0 | | 50.0 | | | |
| SURGE (A) | 150.0 | 135.0 | 150.0 | 150.0 / 100.0 | 125.0 | 150.0 | 100.0 | 250.0 |

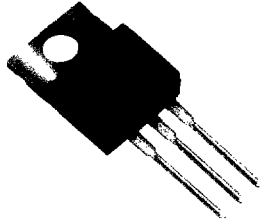
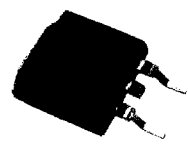
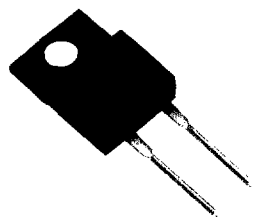
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FAST EFFICIENT RECTIFIERS (cont.)

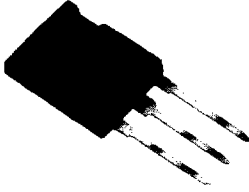
| I _o (A) | 6.0 | 10.0 | 16.0 | | 18.0 | |
|--|---|----------------------|--|-------------------|---|-------------------|
| CASE TYPE | TO-220AB | | TO-263AB "B" prefix ex. FEPBXX | | ITO-220AC "F" prefix ex. FEPFXX | |
| V_{RRM} (VOLTS) |  | |  | |  | |
| 50 | FEP6AT# | UG10ACT# | FEP16AT# | GI2401# | BYV32-50# | UG18ACT# |
| 100 | FEP6BT# | UG10BCT# | FEP16BT# | GI2402# | BYV32-100# | UG18BCT# |
| 150 | FEP6CT# | UG10CCT# | FEP16CT# | GI2403# | BYV32-150# | UG18CCT# |
| 200 | FEP6DT# | UG10DCT# | FEP16DT# | GI2404# | BYV32-200# | UG18DCT# |
| 300 | | UG10FCT# | FEP16FT# | | | |
| 400 | | UG10GCT# | FEP16GT# | | | |
| 500 | | | FEP16HT# | | | |
| 600 | | | FEP16JT# | | | |
| MAX V_F (volts) | 0.975 | 1.25 / 1.30 | 0.95 / 1.3 / 1.5 | 0.975 | 1.15 | 1.1 |
| t_{rr} (ns) | 35 (*ckt #1) | 25 / 35 (*ckt #1) | 35.0 / 50.0 (*ckt #1) | 35.0 (*ckt #1) | 25.0 (*ckt #2) | 20.0 (*ckt #1) |
| I_R (μA) T_A=+25°C | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 | 10.0 |
| I_R (μA) T_A=+100°C | 50.0 | 200.0 | 500.0 | 150.0 / 500.0 | 600.0 | 300.0 |
| SURGE (A) | 100.0 | 60.0 | 125.0 | 125.0 | 150.0 | 175.0 |

Note:

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FAST EFFICIENT RECTIFIERS (cont.)

| I_o (A) | 30.0 | |
|--|--|------------------|
| CASE TYPE | TO-247AD | |
| V_{RRM} (VOLTS) |  | |
| 50 | FEP30AP# | UG30APT# |
| 100 | FEP30BP# | UG30BPT# |
| 150 | FEP30CP# | UG30CPT# |
| 200 | FEP30DP# | UG30DPT# |
| 300 | FEP30FP# | |
| 400 | FEP30GP# | |
| 500 | FEP30HP# | |
| 600 | FEP30JP# | |
| MAX V_F (volts) | 0.95 / 1.3 / 1.5 | 1.0 |
| t_{rr} (ns) | 35.0 / 50.0 (ckt #1) | 20.0 (ckt #2) |
| I_R (μA) T_A=+25°C | 10.0 | 15.0 |
| I_R (μA) T_A=+100°C | 500.0 | 800.0 |
| SURGE (A) | 300.0 | 300.0 |

Note:

- # Uses glass passivated chips, except where noted
- * Circuits are on page 95