

DI 05, 11

T-01-01

RELIABLE POWER SEMICONDUCTOR RECTIFIERS (Contd.)

| TYPE | V_{RSM} | I_{RRM} | $I_{F(AV)}$ | $I_{F(DC)}$ | I_{FRM} | I_{FSM} | I^2t | T_{VJ} | T_{case} | T_{stg} | |
|-----------|-----------|-----------|-------------|-------------|-----------|-----------|----------------------|----------|------------|-----------|-----|
| | VOLTS | VOLTS | mA | AMP | AMP | AMP | AMP ² SEC | °C | °C | °C | |
| ✓ 1 SM25 | 100 | 125 | 5 | 25 | 37 | 125 | 400 | 700 | 175 | 125 | 175 |
| ✓ 2 SM25 | 200 | 250 | 5 | 25 | 37 | 125 | 400 | 700 | 175 | 125 | 175 |
| ✓ 4 SM25 | 400 | 500 | 5 | 25 | 37 | 125 | 400 | 700 | 175 | 125 | 175 |
| ✓ 6 SM25 | 600 | 800 | 5 | 25 | 37 | 125 | 400 | 700 | 175 | 125 | 175 |
| ✓ 8 SM25 | 800 | 1000 | 5 | 25 | 37 | 125 | 400 | 700 | 175 | 125 | 175 |
| ✓ 10 SM25 | 1000 | 1200 | 5 | 25 | 37 | 125 | 400 | 700 | 175 | 125 | 175 |
| ✓ 12 SM25 | 1200 | 1500 | 5 | 25 | 37 | 125 | 400 | 700 | 175 | 125 | 175 |
| ✓ 15 SM25 | 1500 | 1800 | 5 | 25 | 37 | 125 | 400 | 700 | 175 | 125 | 175 |
| ✓ 1 SM40 | 100 | 125 | 5 | 40 | 62 | 204 | 500 | 1.2K | 175 | 125 | 175 |
| ✓ 2 SM40 | 200 | 250 | 5 | 40 | 62 | 204 | 500 | 1.2K | 175 | 125 | 175 |
| ✓ 4 SM40 | 400 | 500 | 5 | 40 | 62 | 204 | 500 | 1.2K | 175 | 125 | 175 |
| ✓ 6 SM40 | 600 | 800 | 5 | 40 | 62 | 204 | 500 | 1.2K | 175 | 125 | 175 |
| ✓ 8 SM40 | 800 | 1000 | 5 | 40 | 62 | 204 | 500 | 1.2K | 175 | 125 | 175 |
| ✓ 10 SM40 | 1000 | 1200 | 5 | 40 | 62 | 204 | 500 | 1.2K | 175 | 125 | 175 |
| ✓ 12 SM40 | 1200 | 1500 | 5 | 40 | 62 | 204 | 500 | 1.2K | 175 | 125 | 175 |
| ✓ 15 SM40 | 1500 | 1800 | 5 | 40 | 62 | 204 | 500 | 1.2K | 175 | 125 | 175 |
| ✓ 1 SM55 | 100 | 125 | 10 | 55 | 85 | 300 | 935 | 4.37K | 175 | 125 | 175 |
| ✓ 2 SM55 | 200 | 250 | 10 | 55 | 85 | 300 | 935 | 4.37K | 175 | 125 | 175 |
| ✓ 4 SM55 | 400 | 500 | 10 | 55 | 85 | 300 | 935 | 4.37K | 175 | 125 | 175 |
| ✓ 6 SM55 | 600 | 800 | 10 | 55 | 85 | 300 | 935 | 4.37K | 175 | 125 | 175 |
| ✓ 8 SM55 | 800 | 1000 | 10 | 55 | 85 | 300 | 935 | 4.37K | 175 | 125 | 175 |
| ✓ 10 SM55 | 1000 | 1200 | 10 | 55 | 85 | 300 | 935 | 4.37K | 175 | 125 | 175 |
| ✓ 12 SM55 | 1200 | 1500 | 10 | 55 | 85 | 300 | 935 | 4.37K | 175 | 125 | 175 |
| ✓ 15 SM55 | 1500 | 1800 | 10 | 55 | 85 | 300 | 935 | 4.37K | 175 | 125 | 175 |
| ✓ 1 SM70 | 100 | 125 | 10 | 70 | 110 | 352 | 1200 | 6.5K | 175 | 125 | 175 |
| ✓ 2 SM70 | 200 | 250 | 10 | 70 | 110 | 352 | 1200 | 6.5K | 175 | 125 | 175 |
| ✓ 4 SM70 | 400 | 500 | 10 | 70 | 110 | 352 | 1200 | 6.5K | 175 | 125 | 175 |
| ✓ 6 SM70 | 600 | 800 | 10 | 70 | 110 | 352 | 1200 | 6.5K | 175 | 125 | 175 |
| ✓ 8 SM70 | 800 | 1000 | 10 | 70 | 110 | 352 | 1200 | 6.5K | 175 | 125 | 175 |
| ✓ 10 SM70 | 1000 | 1200 | 10 | 70 | 110 | 352 | 1200 | 6.5K | 175 | 125 | 175 |
| ✓ 12 SM70 | 1200 | 1500 | 10 | 70 | 110 | 352 | 1200 | 6.5K | 175 | 125 | 175 |
| ✓ 15 SM70 | 1500 | 1800 | 10 | 70 | 110 | 352 | 1200 | 6.5K | 175 | 125 | 175 |



| R _{TH(J-C)} | R _{TH(mtg)} | t _{rr} | Polarity N-Normal *(6) R-Reverse | Wt | Torque | Outline | Fig | Heat sink Fig |
|----------------------|----------------------|-----------------|--|------|--------|---------|-----|------------------|
| °C/W | °C/W | μ sec | | GMS | kgf.m | | | |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.7 | 0.3 | - | N,R | 23.5 | 0.48 | DO-5 | 5,6 | 19 |
| 0.4 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.4 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.4 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.4 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.4 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.4 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.4 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.4 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.35 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.35 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.35 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.35 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.35 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.35 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.35 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.35 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |
| 0.35 | 0.25 | - | N,R | 70.0 | 0.48 | - | 7,8 | 20 |

