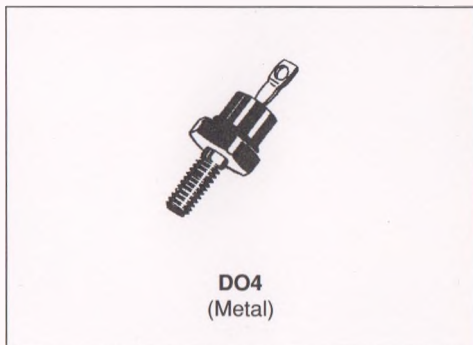


RECTIFIER DIODES

- STANDARD RECTIFIER
- HIGH SURGE CURRENT CAPABILITY
- LOW FORWARD VOLTAGE DROP


ABSOLUTE MAXIMUM RATINGS (limiting values)

| Symbol | Parameter | | Value | Unit |
|--------------------|--|---------------------------------|---------------|------------------|
| $I_{F(AV)}$ | Average forward current * | $T_c=150^\circ\text{C}$ | 6 | A |
| I_{FSM} | Surge non repetitive forward current | $t_p=10\text{ms}$ sinusoidal | 450 | A |
| P_{tot} | Power dissipation * | $T_c=150^\circ\text{C}$ | 25 | W |
| T_{stg} T_j | Storage and junction temperature range | | - 55 to + 175 | $^\circ\text{C}$ |

* Single phase, half wave, resistive or inductive load.

| Symbol | Parameter | 1N | | | | | | | Unit |
|-----------|---------------------------------|-------|-------|-------|-------|-------|------|------|------|
| | | 1344B | 1345B | 1346B | 1347B | 1348B | 3988 | 3990 | |
| V_{RRM} | Repetitive peak reverse voltage | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | V |

THERMAL RESISTANCE

| Symbol | Parameter | Value | Unit |
|---------------|------------------|-------|--------------------|
| $R_{th(j-c)}$ | Junction to case | 3.5 | $^\circ\text{C/W}$ |

ELECTRICAL CHARACTERISTICS

| Symbol | Test Conditions | | Min. | Typ. | Max. | Unit |
|----------|---------------------------|---------------------|------|------|------|---------------|
| V_F * | $T_j = 25^\circ\text{C}$ | $I_F = 20\text{ A}$ | | | 1.2 | V |
| I_R ** | $T_j = 150^\circ\text{C}$ | $V_R = V_{RRM}$ | | | 500 | μA |

Pulse test : * $t_p = 380\ \mu\text{s}$, duty cycle < 2 %

** $t_p = 5\ \text{ms}$, duty cycle < 2 %