

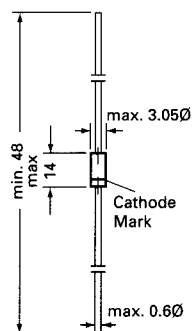
DD300...DD1800

FAST RECOVERY HIGH VOLTAGE SILICON RECTIFIERS

Fast Recovery High Voltage Silicon Rectifiers

Nominal current 20mA
 Repetitive peak 3000 to 18000V
 reverse voltage

Higher Voltage upon requested



Plastic case

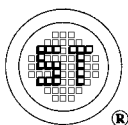
Dimensions in mm

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

| Type | Repetitive peak reverse voltage | | Nominal current | | Cathode Mark | Surge peak reverse voltage |
|---------|---------------------------------|---|-----------------|----|--------------|----------------------------|
| | V_{RRM} | V | I_{FAV} | mA | | |
| DD 300 | 3000 | | 20 | | white | 4000 |
| DD 600 | 6000 | | 20 | | brown | 7000 |
| DD 1000 | 10000 | | 20 | | blue | 12000 |
| DD 1200 | 12000 | | 20 | | silver | 14000 |
| DD 1400 | 14000 | | 20 | | yellow | 15500 |
| DD 1600 | 16000 | | 20 | | green | 19000 |
| DD 1800 | 18000 | | 20 | | red | 20000 |

| | Symbol | Value | Unit |
|--|-----------|--------------|------------------|
| Nominal current, half wave rectification $T_A = 45^\circ\text{C}$ | I_{FAV} | 20 | mA ¹⁾ |
| Repetitive peak forward current | I_{FRM} | 300 | mA |
| Surge current, half cycle 50Hz sine wave, starting from $T_j = 25^\circ\text{C}$ | I_{FSM} | 5 | A |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Operating temperature | T_A | -55 to + 150 | $^\circ\text{C}$ |
| Storage temperature | T_s | -55 to + 150 | $^\circ\text{C}$ |

¹⁾ Valid provided if leads are kept at ambient temperature at a distance of 8 mm from case.



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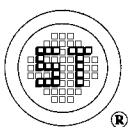
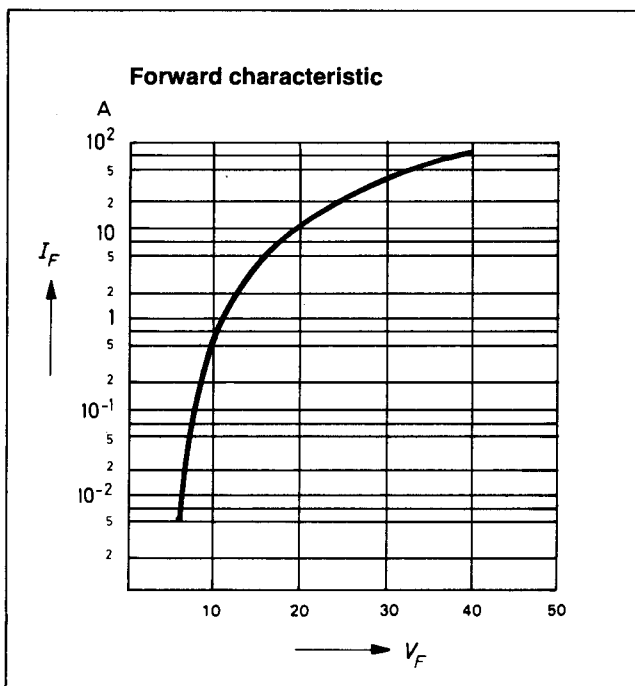


DD300...DD1800

FAST RECOVERY HIGH VOLTAGE SILICON RECTIFIERS

Characteristics

| | Symbol | Min. | Typ. | Max. | Unit |
|---|-----------|------|------|------|--------------------|
| Forward Voltage $I_F = 10 \text{ mA}, T_j = 25^\circ\text{C}$ | V_F | - | - | <40 | V |
| Leakage Current at V_{RRM} $T_j = 25^\circ\text{C}$ | I_R | - | - | <1 | μA |
| Reverse Recovery Time from $I_F = 10 \text{ mA}$ to $I_R = 10 \text{ mA}$ to $I_R = 1 \text{ mA}$ | t_{rr} | - | - | <55 | ns |
| Thermal Resistance Junction to Ambient Air | T_{thA} | - | - | <60 | $\text{K/W}^{(1)}$ |



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