



Cathode to Stud Shown
(Anode to Stud add Suffix R)

Symbol



| MAXIMUM RATINGS (Tj = 25°C unless stated otherwise) | | | | | | | | | | | |
|---|--------------------|------------------|----------------|----------------|----------------|----------------|-----------------|-----------------|------------------|-----------------|-------------------|
| Parameter | Symbol | 70HF(R) -10 | 70HF(R) -20 | 70HF(R) -40 | 70HF(R) -60 | 70HF(R) -80 | 70HF(R) -100 | 70HF(R) -120 | 70HF(R) -140 | 70HF(R) -160 | Unit |
| Repetitive Peak Reverse Voltage | V_{RRM} | 100 | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | Volt |
| Maximum Average On-State Current | $I_{F(AV)}$ | 70 at tj = 140°C | | | | | | | 70 at tj = 110°C | | Amp |
| Peak Forward Surge Current 8.3mS | I_{FSM} | 1250 | | | | | | | 1250 | | Amp |
| Maximum I ² T for Fusing 8.3ms | I ² T | 6450 | | | | | | | 6450 | | A ² /S |
| Maximum Storage Temperature Range | T _(STG) | -65 to +180 | | | | | | | -65 to +150 | | °C |
| Maximum Junction Temperature Range | Tj | -65 to +180 | | | | | | | -65 to +150 | | °C |

| ELECTRICAL CHARACTERISTICS at Tj = 25°C Maximum. Unless stated Otherwise | | | | | | |
|--|----------------|---|-------|-----|------|------|
| Parameter | Symbol | Condition | Value | | | Unit |
| | | | Min | Typ | Max | |
| Maximum Forward Voltage | V_{FM} | $I_{FM} = 220$ Amps (100 -1200V) | | | 1.35 | Volt |
| Maximum Forward Voltage | V_{FM} | $I_{FM} = 220$ Amps (1400 -1600V) | | | 1.46 | Volt |
| Repetitive Peak Reverse Current | I_{RRM} | $V_R = V_{RRM}$, tj= tj Max (100 -400V) | | | 15 | mA |
| Repetitive Peak Reverse Current | I_{RRM} | $V_R = V_{RRM}$, tj= tj Max (600 -1200V) | | | 9.0 | mA |
| Repetitive Peak Reverse Current | I_{RRM} | $V_R = V_{RRM}$, tj= tj Max (1400 -1600V) | | | 4.5 | mA |
| Thermal Resistance (Junction to Case) | $R_{TH (J-C)}$ | | | | 0.45 | °C/W |
| Mounting Torque | M_T | | | | 3.4 | NM |
| Weight | Wt | | | | 17 | grms |

Mechanical Outline

