

1S1885 ~ 1S1888

PRV : 100 ~ 600 Volts
Io : 1.0 Ampere

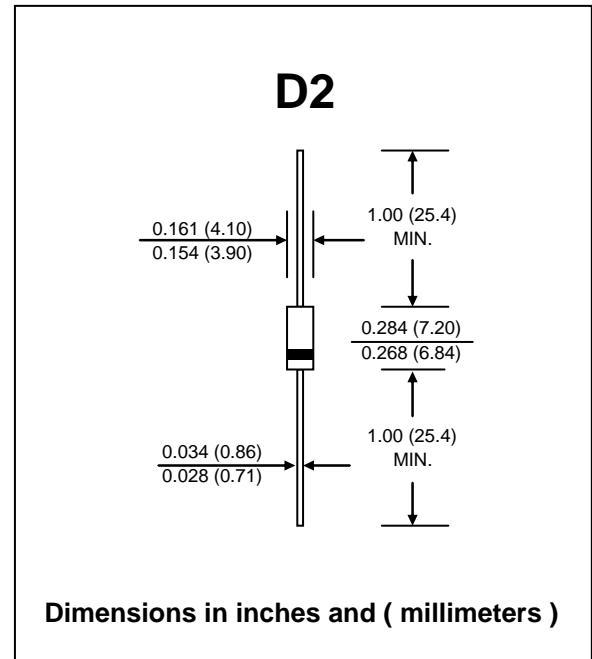
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : D2 Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.465 gram

SILICON RECTIFIER DIODES



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specific.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| RATING | SYMBOL | 1S1885 | 1S1886 | 1S1887 | 1S1888 | UNIT |
|---|----------------------|-------------------------------|--------|--------|--------|------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 100 | 200 | 400 | 600 | V |
| Maximum Average Forward Current Ta = 65 °C | I _F | 1.0 | | | | A |
| Maximum Peak One Cycle Surge Forward Current (Non-repetitive) | I _{FSM} | 60 (50Hz) | | | | A |
| | | 66 (60Hz) | | | | |
| Maximum Forward Voltage at I _F = 1.5 A. | V _F | 1.2 | | | | V |
| Maximum Repetitive Peak Reverse Current (V _{RRM} = Rated) | I _R | 10 | | | | μA |
| | I _{R(H)} | 400 (T _j = 150 °C) | | | | |
| Maximum Thermal Resistance (Junction to Ambient) | R _{th(j-a)} | 100 | | | | °C/W |
| Junction Temperature Range | T _J | - 40 to + 150 | | | | °C |
| Storage Temperature Range | T _{STG} | - 40 to + 150 | | | | °C |

RATING AND CHARACTERISTIC CURVES (1S1885 - 1S1888)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

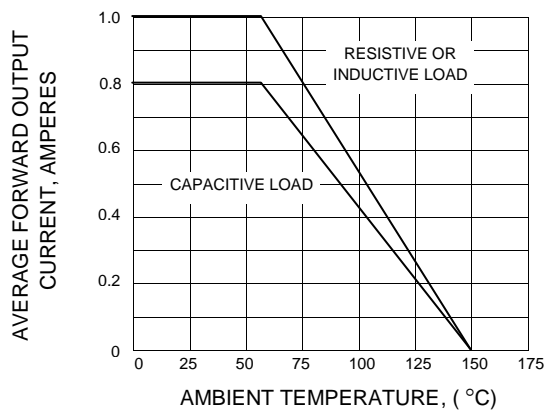


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

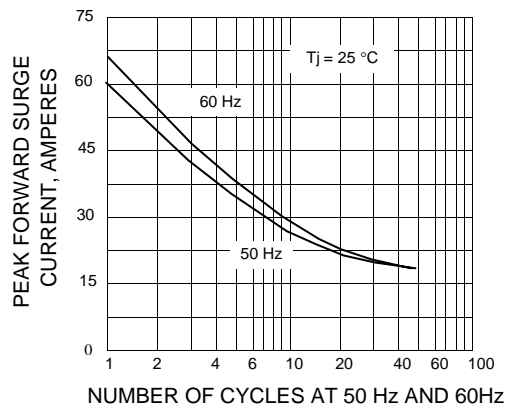


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

