

HV2

PRV : 2000 Volts

Io : 0.5 Ampere

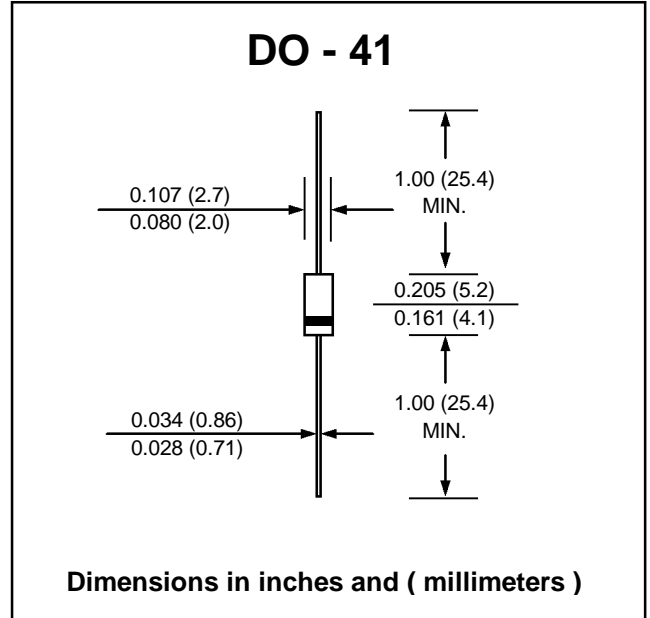
FEATURES :

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

MECHANICAL DATA :

- * Case : DO-41 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 : 0.335 gram

FAST SWITCHING HIGH VOLTAGE RECTIFIER DIODE



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| RATING | SYMBOL | VALUE | UNIT |
|---|--------------------|--------------------------|------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 2000 | V |
| Maximum Surge Peak Reverse Voltage | V _{RSM} | 2000 | V |
| Maximum Average Forward Current Ta = 50°C | I _{F(AV)} | 0.5 | A |
| Maximum Peak Forward Surge Current | I _{FSM} | 27(50Hz half sine-wave) | A |
| | | 30(60Hz half sine-wave) | |
| Maximum Peak Forward Voltage at I _F = 0.5 Amp. | V _F | 3.0 | V |
| Maximum Reverse Current at V _{RRM} , T _J = 25°C | I _R | 3.0 | μA |
| Maximum Reverse Recovery Time (Note 1) | T _{rr} | 400 | ns |
| Operating Junction Temperature Range | T _J | - 50 to + 150 | °C |
| Storage Temperature Range | T _{STG} | - 50 to + 150 | °C |

Note :

(1) Reverse Recovery Test Conditions : I_F = 10 mA, I_R = 10 mA to I_R = 1 mA.



RATING AND CHARACTERISTIC CURVES (HV2)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

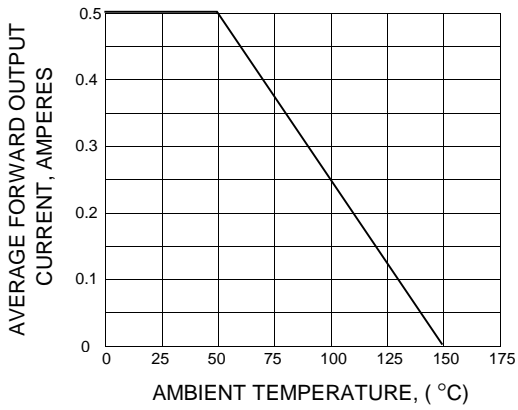


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

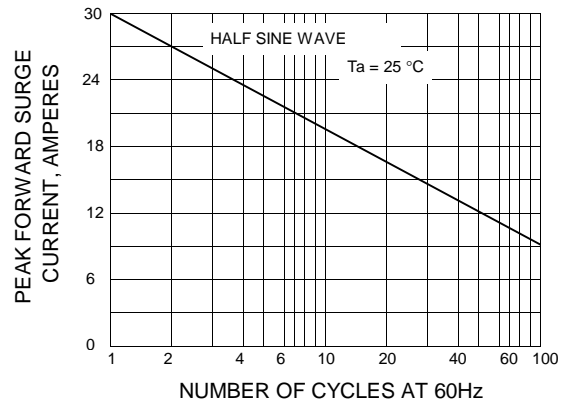


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

