

R3000

PRV : 3000 Volts
Io : 200 mA

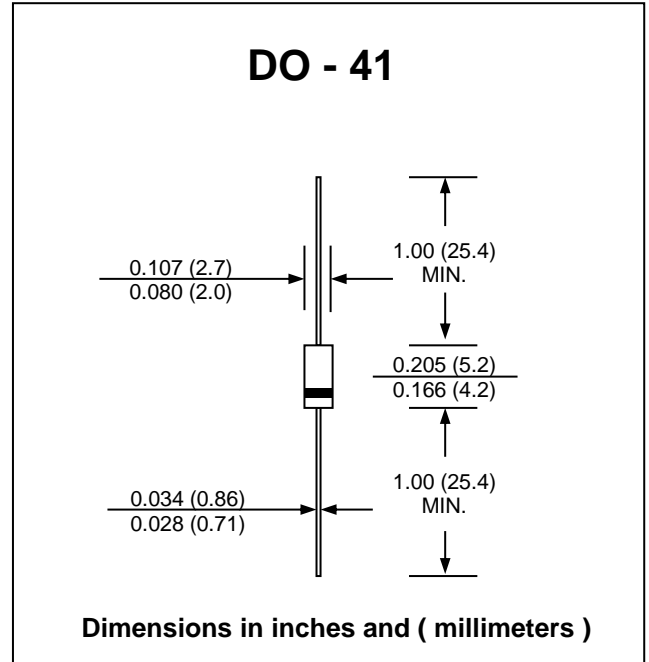
FEATURES :

- * 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 : 0.34 gram

HIGH VOLTAGE RECTIFIER



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 Recurrent Peak Reverse Voltage	VRRM	3000	V
Maximum RMS Voltage	VRMS	2100	V
Maximum DC Blocking Voltage	VDC	3000	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 50 °C	IF(AV)	200	mA
Maximum Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	30	A
Maximum Peak Forward Voltage at IF = 200 mA	VF	3.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	5.0	μA
Junction Temperature Range	TJ	- 55 to + 150	°C
Storage Temperature Range	TSTG	- 55 to + 150	°C

RATING AND CHARACTERISTIC CURVES (R3000)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

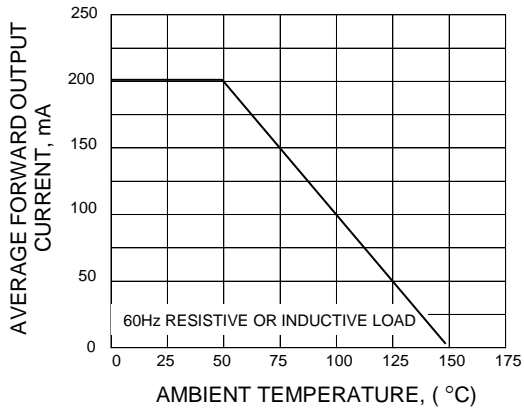


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

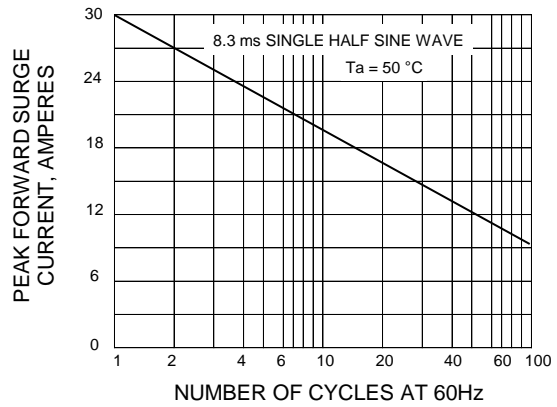


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

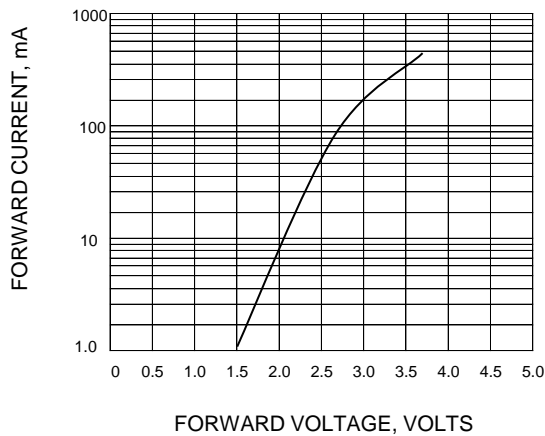


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

