

HVR230 - HVR250

PRV : 3000 - 5000 Volts

Io : 0.5 ~ 1.0 Amp

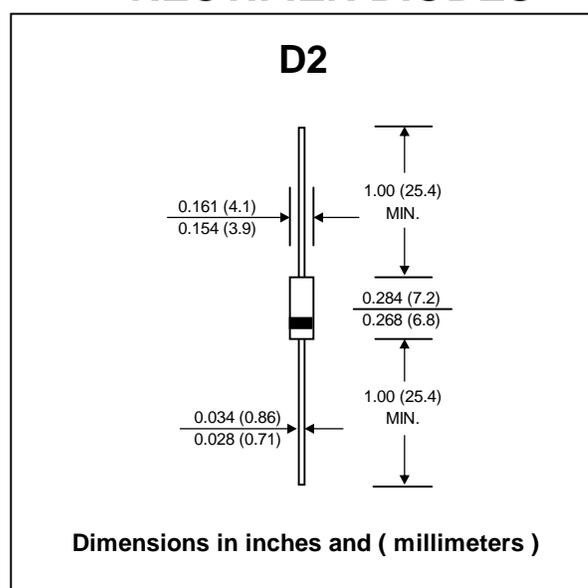
FEATURES :

- * 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

HIGH VOLTAGE RECTIFIER DIODES



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	HVR230	HVR250	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	3000	5000	V
Maximum RMS Voltage	VRMS	2100	3500	V
Maximum DC Blocking Voltage	VDC	3000	5000	V
Maximum Average Forward Current Ta = 50°C	IF(AV)	1.0	0.5	A
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	50		A
Maximum Peak Forward Voltage at IF = 1.0 A	VF	3.0	5.0	V
Maximum DC Reverse Current Tj = 25°C at Rated DC Blocking Voltage Tj = 100°C	IR	5.0		μA
	IR(H)	100		μA
Junction Temperature Range	TJ	- 40 to + 150		°C
Storage Temperature Range	TSTG	- 40 to + 150		°C

RATING AND CHARACTERISTIC CURVES (HVR230 - HVR250)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

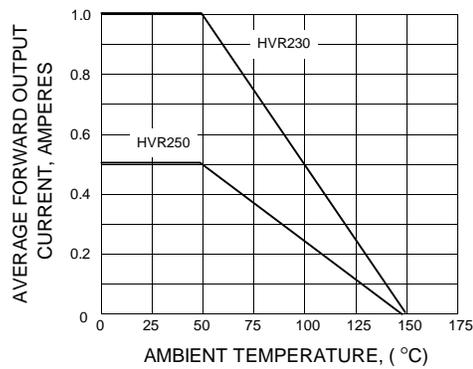


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

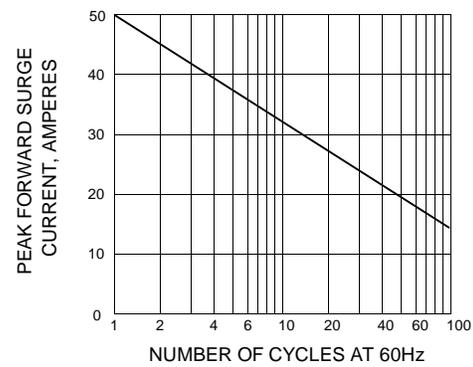


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

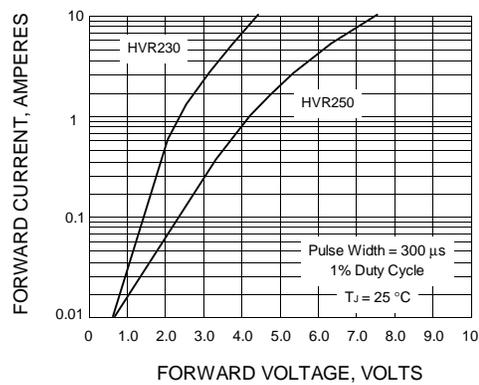


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

