HVR230 - HVR250

HIGH VOLTAGE RECTIFIER DIODES

PRV : 3000 - 5000 Volts
Io : 0.5 ~ 1.0 Amp

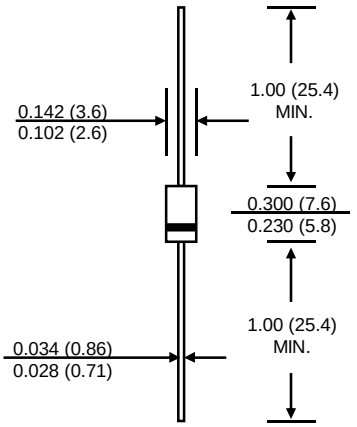
FEATURES :

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

MECHANICAL DATA :

* Case : DO-15 Molded plastic
* Epoxy : UL94V-0 rate flame retardant
* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.4 gram

DO-15



Dimensions in inches and (millimeters)

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	V_{RRM}	3000	5000	V
Maximum RMS Voltage	V_{RMS}	2100	3500	V
Maximum DC Blocking Voltage	V_{DC}	3000	5000	V
Maximum Average Forward Current Ta = 50 °C	$I_{F(AV)}$	1.0	0.5	A
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}			A
Maximum Peak Forward Voltage at I_F = 1.0 A	V_F	3.0	5.0	V
Maximum DC Reverse Current Tj = 25 °C	I_R	5.0		µA
at Rated DC Blocking Voltage Tj = 100 °C	$I_{R(H)}$	100		µA
Junction Temperature Range	T_J	- 40 to + 150		°C
Storage Temperature Range	T_{STG}	- 40 to + 150		°C

RATING AND CHARACTERISTIC CURVES (HVR230 - HVR250)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

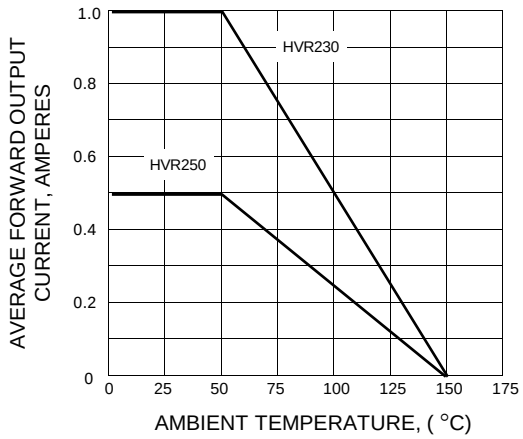


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

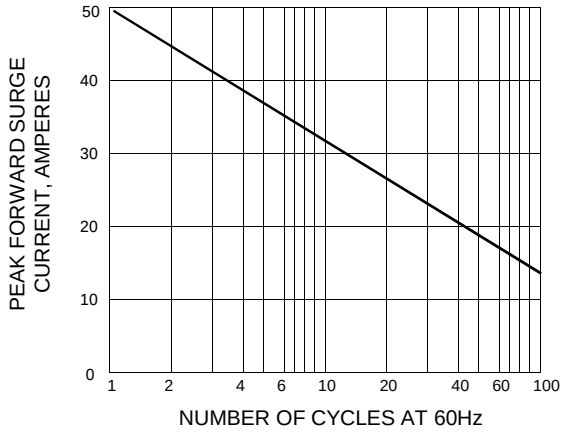


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

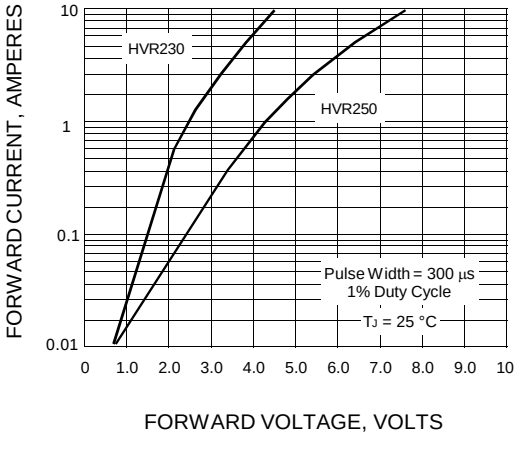


FIG.4 - TYPICAL REVERSE CHARACTERISTICS