

# HVR125 - HVR180

**PRV : 2500 - 8000 Volts**

**Io : 0.2 - 0.5 Ampere**

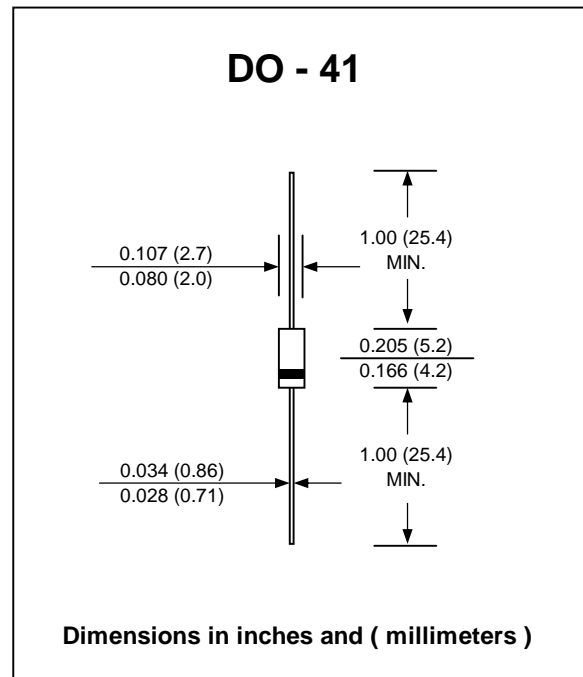
**FEATURES :**

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* **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 DIODES



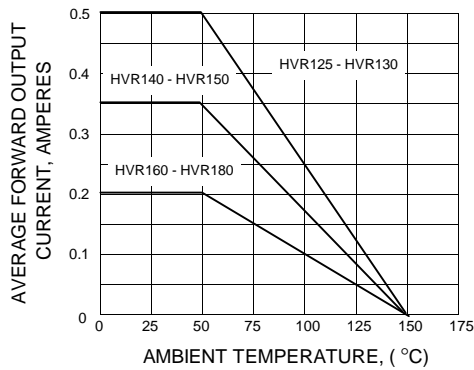
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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%.

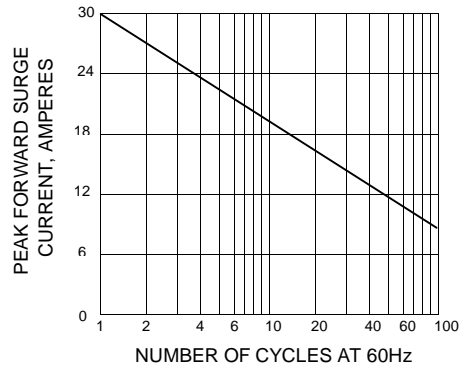
RATING	SYMBOL	HVR 125	HVR 130	HVR 140	HVR 150	HVR 160	HVR 170	HVR 180	UNIT	
Maximum Repetitive Peak Reverse Voltage	VRRM	2500	3000	4000	5000	6000	7000	8000	V	
Maximum RMS Voltage	VRMS	1750	2100	2800	3500	4200	4900	5600	V	
Maximum DC Blocking Voltage	VDC	2500	3000	4000	5000	6000	7000	8000	V	
Maximum Average Forward Current Ta = 50°C	IF(AV)	0.5		0.3		0.2			A	
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 = 1.0 A	VF	3.3		5.0		8.0			V	
Maximum DC Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 100°C	IR	5.0								µA
	IR(H)	50								µA
Junction Temperature Range	TJ	- 40 to + 150								°C
Storage Temperature Range	TSTG	- 40 to + 150								°C

**RATING AND CHARACTERISTIC CURVES ( HVR125 - HVR180 )**

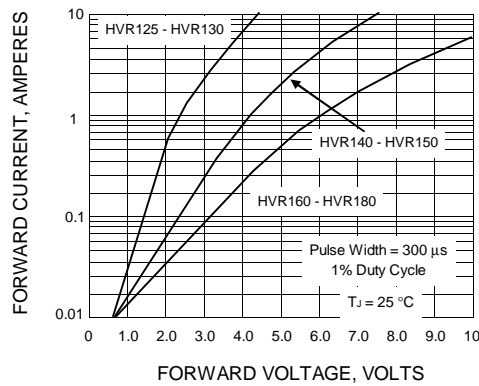
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

