



# HVR125 - HVR180

## HIGH VOLTAGE RECTIFIER DIODES

PRV : 2500 - 8000 Volts

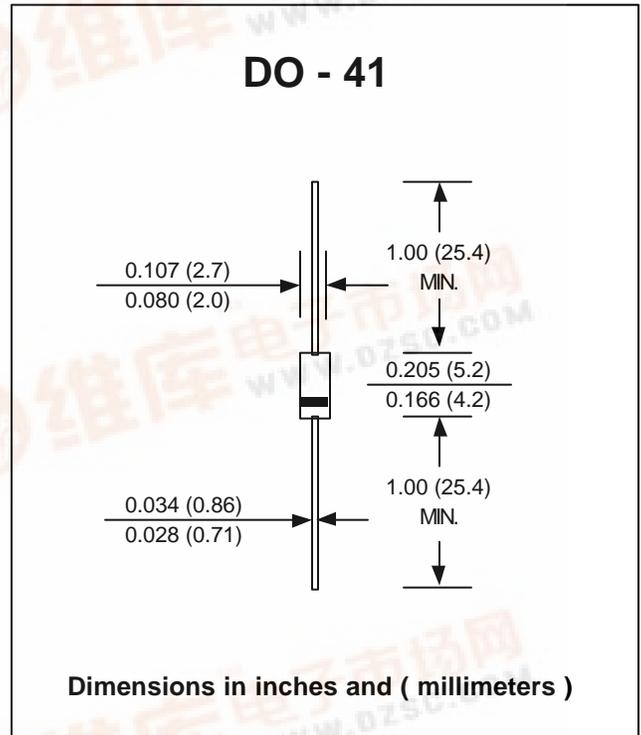
Io : 0.5 Ampere

### FEATURES :

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

### 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 : 0.339 gram



### 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%.

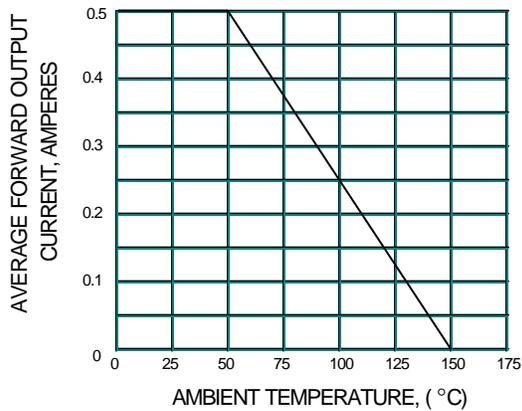
RATING	SYMBOL	HVR 125	HVR 130	HVR 140	HVR 150	HVR 160	HVR 170	HVR 180	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	2500	3000	4000	5000	6000	7000	8000	Volts
Maximum RMS Voltage	VRMS	1750	2100	2800	3500	4200	4900	5600	Volts
Maximum DC Blocking Voltage	VDC	2500	3000	4000	5000	6000	7000	8000	Volts
Maximum Average Forward Current Ta = 50°C	IF(AV)	0.5							Amp.
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	30							Amps.
Maximum Peak Forward Voltage at IF = 1.0 Amp.	VF	3.3	5.0		8.0			Volts	
Maximum DC Reverse Current Ta = 25°C	IR	5.0							µA
at Rated DC Blocking Voltage Ta = 100°C	IR(H)	50							µA
Junction Temperature Range	TJ	- 40 to + 150							°C
Storage Temperature Range	TSTG	- 40 to + 150							°C



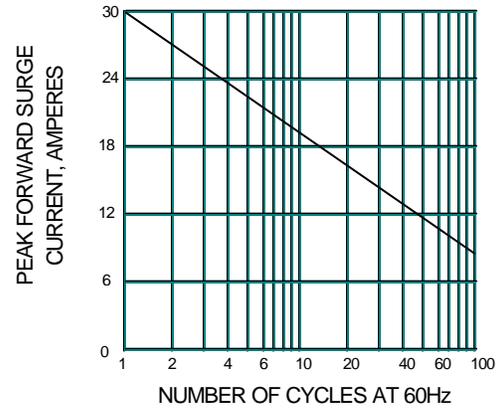


## RATING AND CHARACTERISTIC CURVES ( HVR125 - HVR180 )

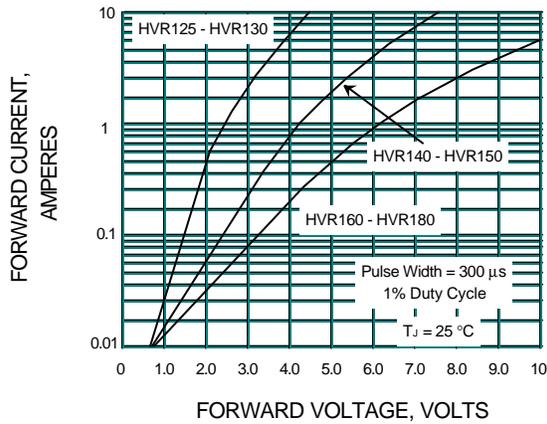
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

