



# HVR116S

PRV : 1600 Volts

Io : 1.0 Ampere

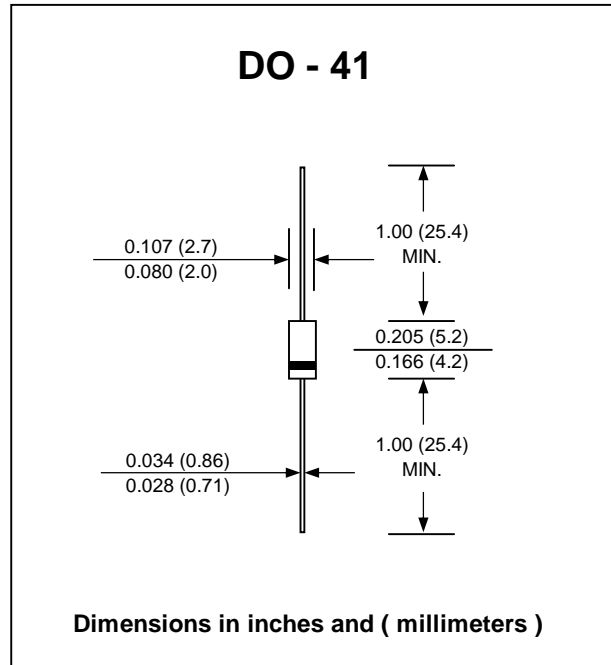
## FEATURES :

- \* 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



## 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 Repetitive Peak Reverse Voltage	VRRM	1600	V
Maximum RMS Voltage	VRMS	1120	V
Maximum DC Blocking Voltage	VDC	1600	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 75 °C	IF	1.0	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	1.10	V
Maximum DC Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 100°C	IR	2.0	µA
	IR(H)	50	µA
Typical Junction Capacitance (Note 1)	Cj	30	pF
Typical Thermal Resistance, Junction to Lead	RθJL	19	°C/W
Junction Temperature Range	TJ	- 65 to + 175	°C
Storage Temperature Range	TSTG	- 65 to + 175	°C

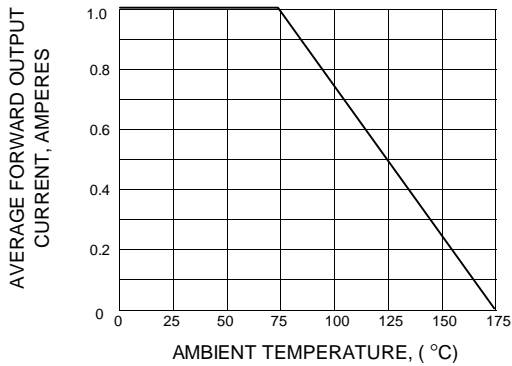
**Note :**

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

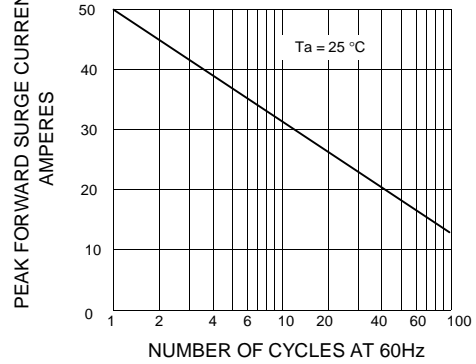


### RATING AND CHARACTERISTIC CURVES ( HVR116S )

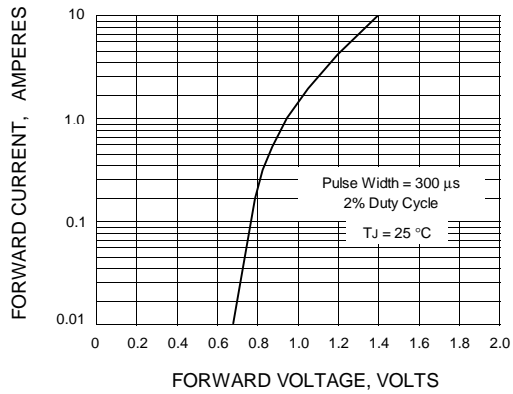
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

