

# HVR120-STRR

**PRV : 2000 Volts**

**Io : 1.0 Ampere**

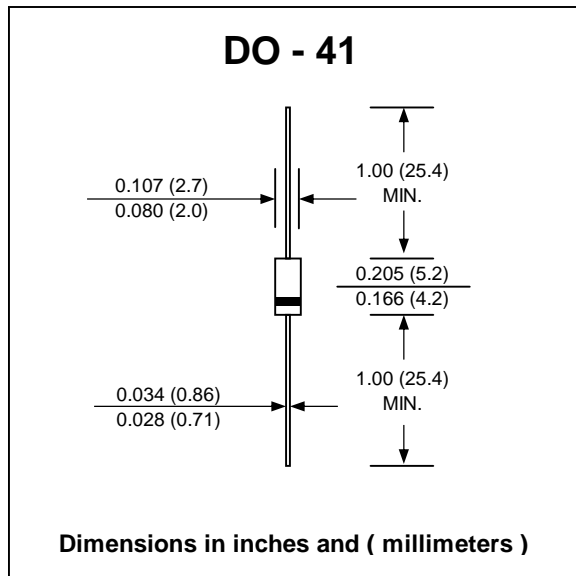
**FEATURES :**

- \* 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 HIGH VOLTAGE RECTIFIERS



### 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	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	2000	Volts
Maximum RMS Voltage	VRMS	1400	Volts
Maximum DC Blocking Voltage	VDC	2000	Volts
Maximum Average Forward Current Ta = 75°C	IF(AV)	1.0	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	2.2	Volts
Maximum DC Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 100°C	IR	5.0	µA
	IR(H)	100	µA
Reverse Recovery Time Range ( Note 1 )	Trr	1800 to 2300	ns
Typical Junction Capacitance (Note 2)	Cj	36	pF
Junction Temperature Range	TJ	- 40 to + 150	°C
Storage Temperature Range	TSTG	- 40 to + 150	°C

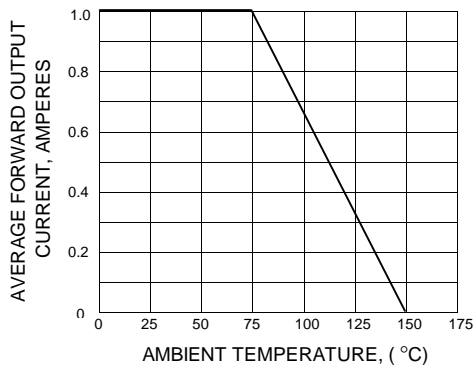
**Notes :** (1) Reverse Recovery Test Conditions : IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A.

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

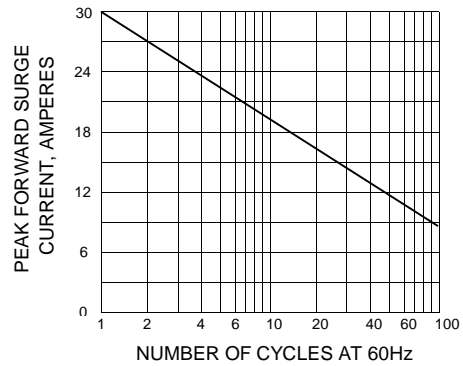


### RATING AND CHARACTERISTIC CURVES ( HVR120-STRR )

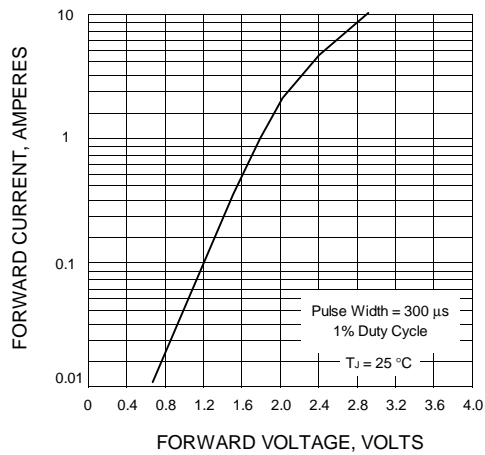
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

