



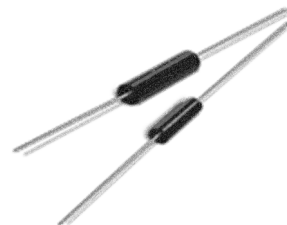
**HVP**  
High Voltage Products. High Voltage Experts.

# DV Series

6KV to 10KV, Fast Recovery  
High Voltage Rectifiers

## Features

- Fast reverse recovery time for high efficiency
- Molded plastic body, ANSI/UL94 V-0 rated material
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II; Annex III, 7(a)



## Device Electrical Characteristics

(25°C ambient temperature unless stated otherwise)

Parameter	Conditions	Symbol	DV6P	DV8P	DV10P
Maximum Repetitive Peak Reverse Voltage		<b>V<sub>RRM</sub></b>	6000 V	8000 V	10000 V
Average Forward Current maximum	T <sub>A</sub> = 55°C	<b>I<sub>FAVM</sub></b>	75mA	60mA	55mA
Maximum Forward Voltage Drop	I <sub>F</sub> = 20mA	<b>V<sub>F</sub></b>	7.5 Volts	11.5 Volts	16 Volts
Maximum Surge Current	8.3msec, half sine	<b>I<sub>FSM</sub></b>	3 Amps		
Maximum Reverse Current	at rated V <sub>RRM</sub>	<b>I<sub>R</sub></b>	0.02μA		0.04μA
Maximum Reverse Recovery Time	I <sub>F</sub> =0.5I <sub>FAVM</sub> , I <sub>R</sub> = I <sub>FAVM</sub> , I <sub>RR</sub> = 0.25I <sub>FAVM</sub> (Typical)	<b>T<sub>RR</sub></b>	75ηsec		
Typical Junction Capacitance	f = 1MHz, V <sub>R</sub> = 0 VDC	<b>C<sub>J</sub></b>	1.3pf	0.9pf	0.65pf
Maximum Junction Temperature	-	<b>T<sub>J</sub></b>	150°C		
Storage Temperature Range	-	<b>T<sub>STG</sub></b>	-55°C to 150°C		
<b>Mechanical Data</b>		<b>(Nominal Dimensions)</b>			
Body Length		<b>A</b>	0.195in./5.0mm		
Body Diameter		<b>D</b>	0.080in./2.0mm		
Lead Length		<b>B</b>	1.0in./25.4mm		
Lead Diameter		<b>C</b>	0.020in./0.5mm		

