

HVP5 **THRU** HVP16

### HIGH VOLTAGE ASSEMBLIED RECTIFIER

## VOLTAGE RANGE 5000 to 16000 Volts CURRENT 0.75 Amperes

#### **FEATURES**

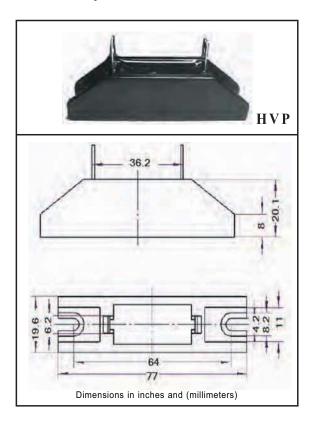
- \* Low cost
- \* Low leakage
- \* Isolated case
- \* Surge overload rating 50 amperes peak
- \* Mounting position: Any
- \* Low forward voltage drop

#### **MECHANICAL DATA**

\* Epoxy: Device has UL flammability classification 94V-O

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\circ}\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



#### MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	HVP5	HVP8	HVP10	HVP12	HVP14	HVP15	HVP16	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	5	8	10	12	14	15	16	K Volts
Maximum RMS Voltage	VRMS	3.5	5.6	7.0	8.4	9.8	10.5	11.2	K Volts
Maximum DC Blocking Voltage	VDC	5	8	10	12	14	15	16	K Volts
Maximum Average Forward Rectified Current at TA = 50°C	lo	750							mAmps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50						Amps	
Typical Current Squarad Time	l <sup>2</sup> t	10.37							A <sup>2</sup> /Sec
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150							°C

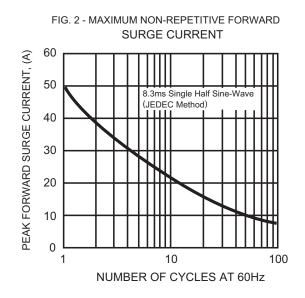
#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

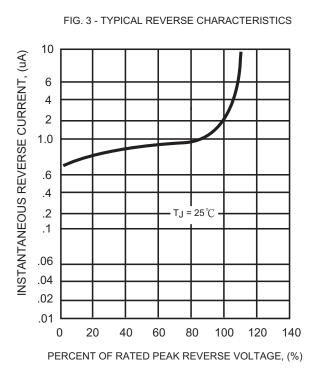
CHARACTERISTICS	SYMBOL	HVP5	HVP8	HVP10	HVP12	HVP14	HVP15	HVP16	UNITS
Maximum Instantaneous Forward Voltage at 0.75A DC	VF	8.0	14.0					1111110	Volts
Maximum DC Reverse Current	lo.		- I						4
at Rated DC Blocking Voltage	IR IR		5.0						uAmps

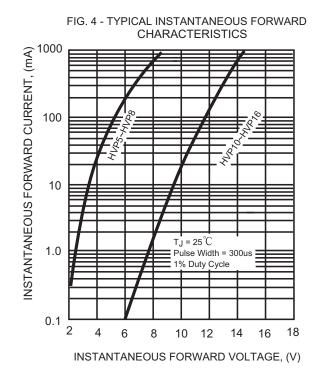
NOTES: Enough heat sink must be considered in application.

## RATING AND CHARACTERISTIC CURVES (HVP5 THRU HVP16)

FIG. 1 - TYPICAL FORWARD CURRENT **DERATING CURVE** AVERAGE FORWARD CURRENT, (mA) Single Phase Half Wave 60Hz Inductive or Resistive Load AMBIENT TEMPERATURE, ( °C )





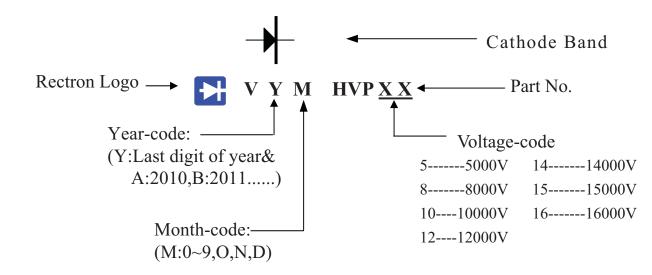






# Attachment information about HVPXX

## 1. Marking on the body



## 2. Items marked on the carton

**CUSTOMER** 

**TYPE** 

**QUANTITY** 

LOT NO.

REMARK

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