

## HVA Series

**PRV : 10,000-15,000 V**  
**Io : 100 mA**

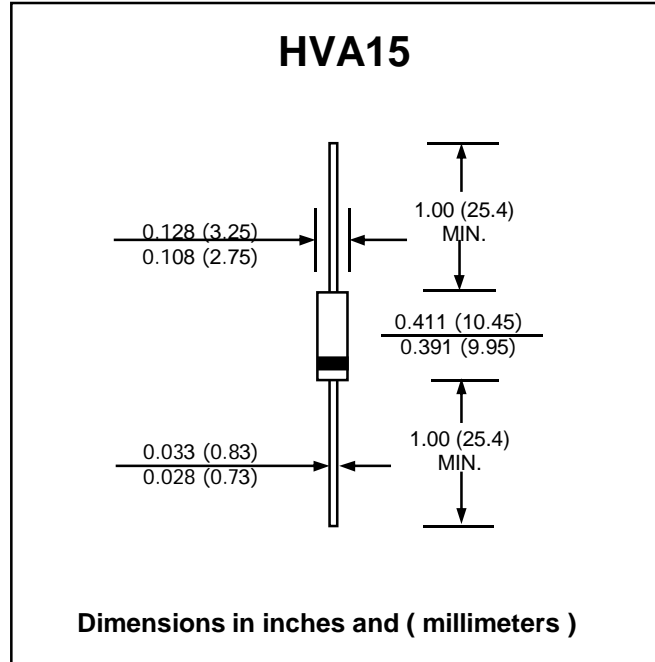
### FEATURES :

- \* High maximum operating temperature
- \* Excellent stability
- \* High reliability
- \* Low reverse current
- \* **Pb / RoHS Free**

### MECHANICAL DATA :

- \* Case : HVR15 Molded plastic
- \* Epoxy : UL94V-0 rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : N/A

## HIGH VOLTAGE AVALANCHE DIODE



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.  
 Single phase, half wave, 50 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

RATING	SYMBOL	HVA10	HVA15	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	10,000	15,000	V
Maximum Working Reverse Voltage	$V_{RWM}$	10,000	15,000	V
Min. Avalanche Breakdown Voltage at 100 $\mu$ A, $T_j = 25\text{ }^\circ\text{C}$	$V_{BR(min.)}$	11,000	16,500	V
Maximum Average Forward Current	$I_{F(AV)}$	100	100	mA
Maximum Repetitive Peak Forward Current	$I_{FRM}$	500	500	mA
Maximum Avalanche Energy at $T_a = 140\text{ }^\circ\text{C}$	$E_{AR}$	10-15	10-15	mJ
Forward Voltage at $I_F = 100\text{ mA}$ , $T_j = 25\text{ }^\circ\text{C}$	$V_F$	10.8	16.2	V
Maximum Reverse Current $V_R = V_{RWMmax.}$ ; $T_j = 25\text{ }^\circ\text{C}$	$I_R$	5.0	5.0	$\mu$ A
Thermal Resistance From Junction to Ambient ( $T_a = T_L$ ; Lead Length = 10 mm )	$R_{th\ j-a}$	90	90	K/W
Maximum Junction Temperature	$T_j$	175	175	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	- 55 to + 175	- 55 to + 175	$^\circ\text{C}$