

## 3.0kV 1.5A HIGH VOLTAGE DIODE

HVRWx is high reliability resin molded type high voltage diode in small size package which is sealed a multilayered mesa type silicon chip by epoxy resin.

### Features

- High speed switching
- High Current
- High surge resistivity for CRT discharge
- High reliability design
- High Voltage

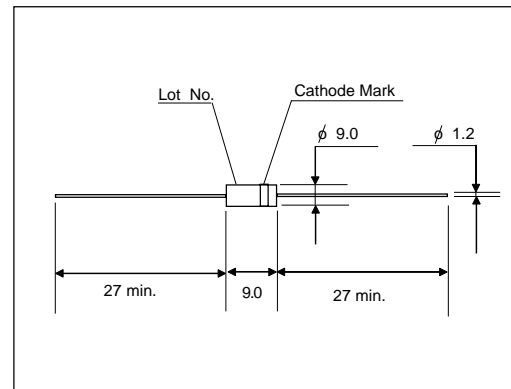
### Applications

- X light Power supply
- Laser
- Voltage doubler circuit
- Microwave emission power

### Maximum Ratings and Characteristics

- Absolute Maximum Ratings

### Outline Drawings : mm



### Cathode Mark

Type	Mark
HVRW3	

Items	Symbols	Condition	HVRW3	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$		3.0	kV
Average Output Current	$I_o$	Ta=25°C, Resistive Load	1.5	A <sub>peak</sub>
Surge Current	$I_{FSM}$		60	A <sub>peak</sub>
Junction Temperature	T <sub>J</sub>		155	°C
Allowable Operation Case Temperature	T <sub>c</sub>		125	°C
Storage Temperature	T <sub>stg</sub>		-40 to +155	°C

### Electrical Characteristics (Ta=25°C Unless otherwise specified)

Items	Symbols	Conditions	HVRW3	Units
Maximum Forward Voltage Drop	$V_F$	at 25°C, $I_F = I_{F(AV)}$	5.0	V
Maximum Reverse Current	IR1	at 25°C, $V_R = V_{RRM}$	50	uA
	IR2	at 100°C, $V_R = V_{RRM}$	500	uA
Maximum Reverse Recovery Time	T <sub>rr</sub>	at 25°C	150	nS
Junction Capacitance	C <sub>j</sub>	at 25°C, $V_R = 0V, f = 1MHz$	--	pF