



# HVRT SERIES

8 to 30kV, 40 to 60mA, 100nS  
Axial Lead Low Current Diodes



## Features

- Miniature Package, Medium Power
- Molded Plastic Body, ANSI/UL94 V-0 Rated Material

## Specifications<sup>1</sup>

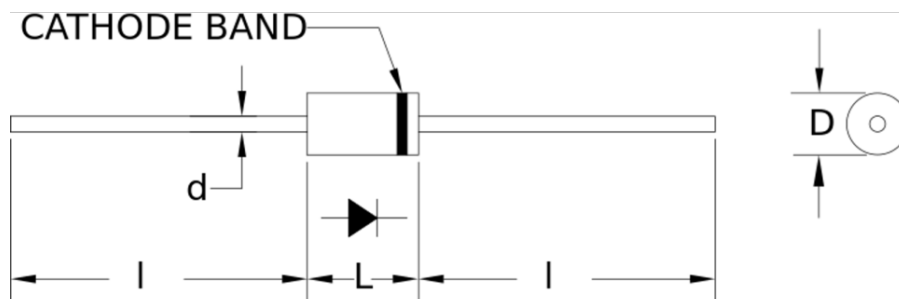
Part Number	V <sub>RRM</sub> V	I <sub>FAVM</sub> mA	V <sub>F</sub> V	I <sub>R</sub> μA	I <sub>FSM</sub> A	C <sub>J</sub> pF	T <sub>RR</sub> <sup>2</sup> nS	L in.	D in.	d in.	I in.
HVRT080	8000	60	20	1	0.5	0.8	100	0.320	0.120	0.025	1.000
HVRT100	10000	50	23	1	0.5	0.7	100	0.400	0.120	0.025	1.000
HVRT120	12000	40	25	1	0.5	0.6	100	0.400	0.120	0.025	1.000
HVRT150	15000	40	35	1	3.0	0.5	100	0.470	0.120	0.025	1.000
HVRT200	20000	55	35	1	3.0	1.0	100	0.470	0.120	0.025	1.000
HVRT250	25000	55	35	1	3.0	0.9	100	0.470	0.120	0.025	1.000
HVRT300	30000	55	48	1	3.0	0.8	100	0.470	0.120	0.025	1.000

Temperature °C	
Storage Temperature	-55 to 175
Operating Temperature	-55 to 125
Maximum Junction Temperature	125

<sup>1</sup>125°C ambient temperature unless stated otherwise.

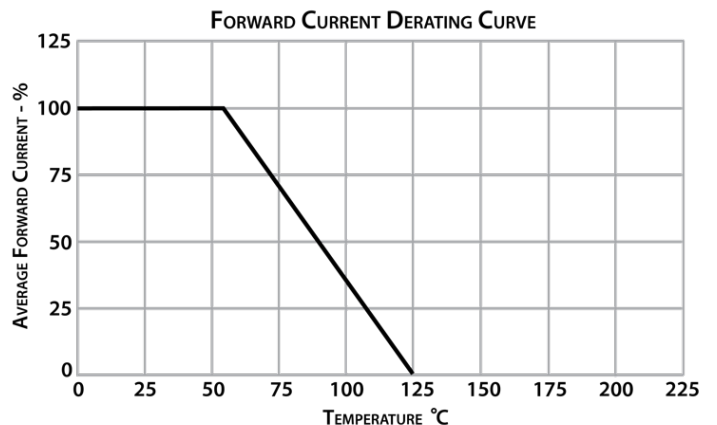
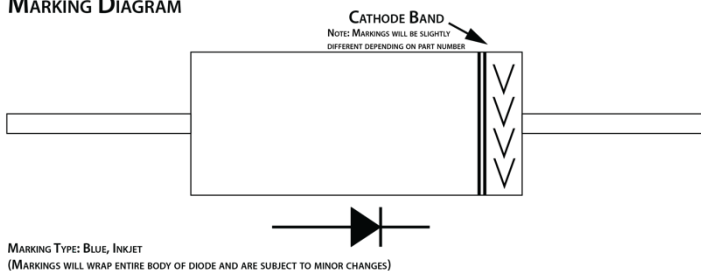
<sup>2</sup>Check Specifications Definitions for conditions details.

## Drawings



Dimensions in inches, tolerances ±0.020 except as noted

## MARKING DIAGRAM





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## Specification Definitions

	Specifications	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Reverse Voltage	-
<b>I<sub>FAVM</sub></b>	Maximum Average Forward Current	At T <sub>A</sub> = 55°C
<b>V<sub>F</sub></b>	Maximum Forward Voltage Drop	At I <sub>FAVM</sub>
<b>I<sub>R</sub></b>	Maximum Leakage Current	At V <sub>RRM</sub>
<b>I<sub>FSM</sub></b>	Maximum Surge Current	At 8.3mS, Single Half Sine
<b>C<sub>J</sub></b>	Typical Junction Capacitance	At V <sub>R</sub> = 0VDC, f = 1MHz
<b>T<sub>RR</sub></b>	Maximum Reverse Recovery Time	I <sub>F</sub> = 20mA; I <sub>R</sub> = -40mA; I <sub>RR</sub> = -10mA (HVRT080, HVRT100, HVRT120, HVRT150) I <sub>F</sub> = 40mA; I <sub>R</sub> = -80mA; I <sub>RR</sub> = -20mA (HVRT200, HVRT250, HVRT300)

Note: Specifications subject to change without notice. Photo is representation only.

