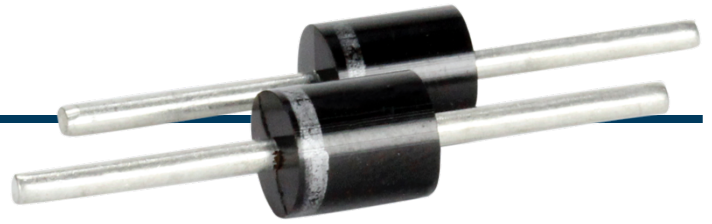




# HVCF SERIES

2.5 to 10kV, 0.65 to 1.50A, 75nS  
Axial Lead Power Diodes



## Features

- High Current and Fast Recovery
- Glass Passivated
- Molded Plastic Body, ANSI/UL94 V-0 Rated Material

## Specifications<sup>1</sup>

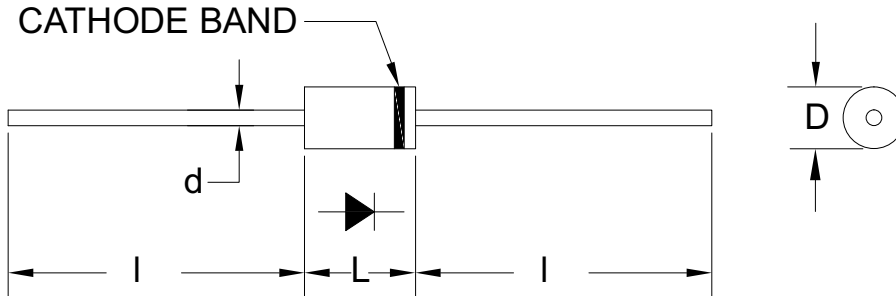
Part Number	V <sub>RRM</sub> V	I <sub>FAVM1</sub> <sup>2</sup> mA	I <sub>FAVM2</sub> <sup>2</sup> mA	V <sub>F</sub> V	I <sub>R</sub> μA	I <sub>FSM</sub> A	C <sub>J</sub> pF	T <sub>RR</sub> nS	L in.	D in.	d in.	l in.
HVCF25	2500	1500	3000	4.3	2	200	65	75	0.38	0.32	0.08	0.60
HVCF50	5000	1200	2200	7.0	2	150	45	75	0.38	0.32	0.08	0.60
HVCF100	10000	650	1500	10.7	2	100	24	75	0.38	0.32	0.08	0.60

Temperature °C	
Operating Temperature	-55 to 175 (HVCF25) -55 to 150 (HVCF50, HVCF100)
Storage Temperature	-55 to 175
Maximum Junction Temperature	175 (HVCF25) 150 (HVCF50, HVCF100)

<sup>1</sup>25°C ambient temperature unless stated otherwise.

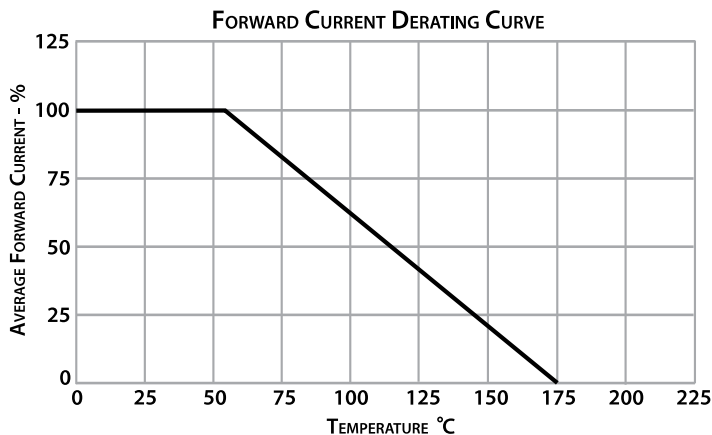
<sup>2</sup>Check Specification Definitions for conditions details.

## Drawings

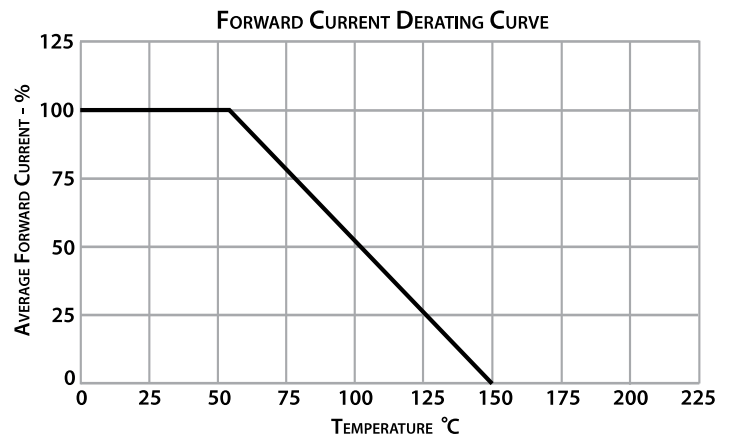


Dimensions in inches, tolerances ±0.020 except as noted

HVCF25



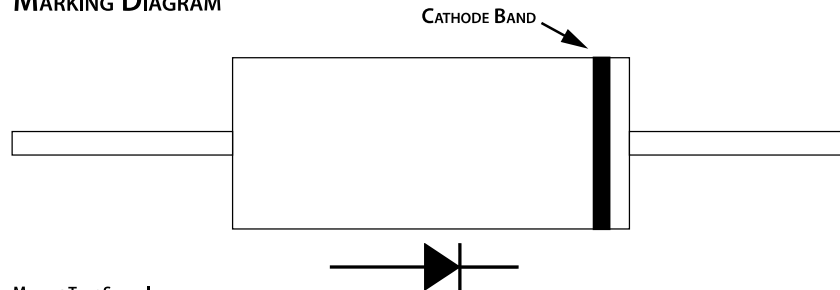
HVCF50, HVCF100





# HVCF SERIES

## MARKING DIAGRAM



MARKING TYPE: SILVER, INKJET  
(MARKINGS WILL WRAP ENTIRE BODY OF DIODE AND ARE SUBJECT TO MINOR CHANGES)

## Specification Definitions

Specifications		Conditions
$V_{RRM}$	Maximum Repetitive Reverse Voltage	-
$I_{FAVM1}$	Maximum Average Forward Current	At $T_A = 55^\circ\text{C}$
$I_{FAVM2}$	Maximum Average Forward Current	At $T_L = 55^\circ\text{C}$
$V_F$	Maximum Forward Voltage Drop	At $I_{FAVM1}$
$I_R$	Maximum Leakage Current	At $V_{RRM}$
$I_{FSM}$	Maximum Surge Current	At 8.3mS, Single Half Sine
$C_J$	Typical Junction Capacitance	At $V_R = 0\text{VDC}$ , $f = 1\text{MHz}$
$T_{RR}$	Maximum Reverse Recovery Time	$I_F = 500\text{mA}$ ; $I_R = -1000\text{mA}$ ; $I_{RR} = -250\text{mA}$

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