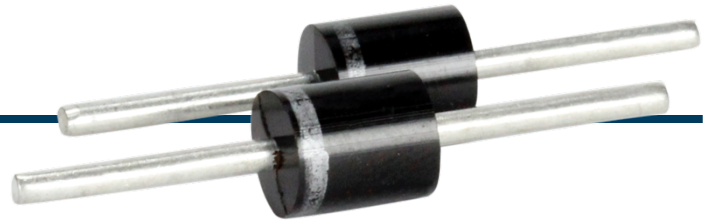




HVCF SERIES

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

Specifications¹

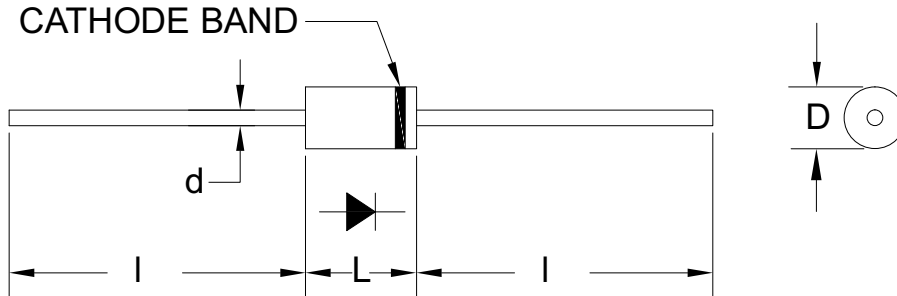
| Part Number | V _{RRM} V | I _{FAVM1} ² mA | I _{FAVM2} ² mA | V _F V | I _R μA | I _{FSM} A | C _J pF | T _{RR} nS | L in. | D in. | d in. | l in. |
|----------------|-----------------------|---------------------------------------|---------------------------------------|---------------------|----------------------|-----------------------|----------------------|-----------------------|----------|----------|----------|----------|
| 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) |

¹25°C ambient temperature unless stated otherwise.

²Check Specification Definitions for conditions details.

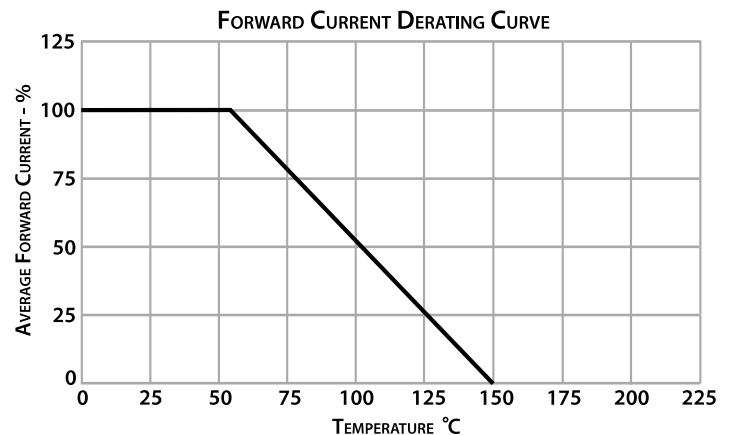
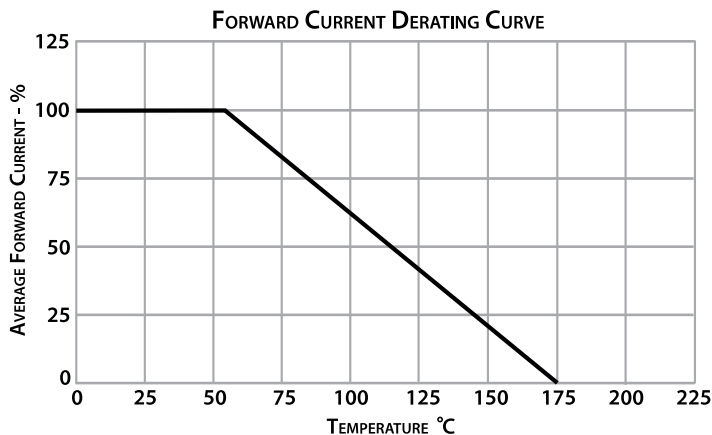
Drawings



Dimensions in inches, tolerances ±0.020 except as noted

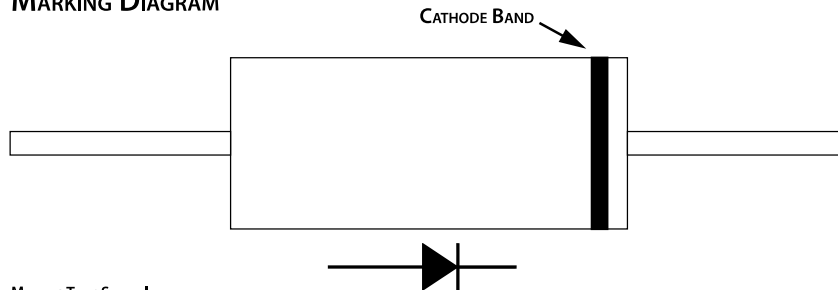
HVCF25

HVCF50, HVCF100





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°C |
| I_{FAVM2} | Maximum Average Forward Current | At T _L = 55°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 = 0VDC, f = 1MHz |
| T_{RR} | Maximum Reverse Recovery Time | I _F = 500mA; I _R = -1000mA; I _{RR} = -250mA |

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

