



HV7 SERIES

8 to 20kV, 100 to 225mA, 50nS to Standard Recovery
Axial Lead Power Diodes



Features

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

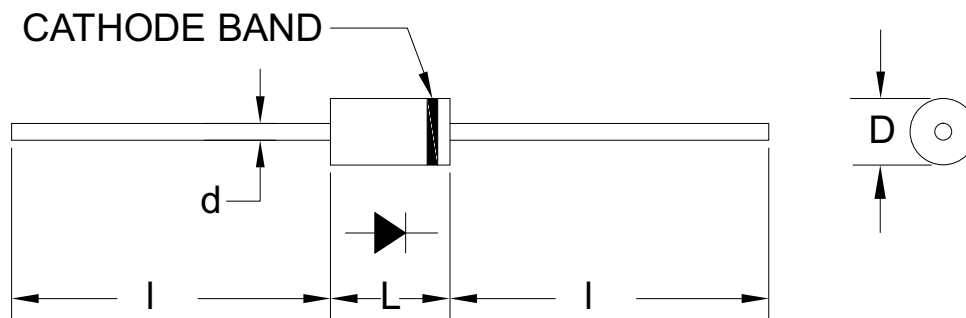
Specifications¹

| Part Number | V _{RRM} V | I _{FAVM1} mA | I _{FAVM2} mA | V _F V | I _{R1} μA | I _{R2} μA | I _{FSM} A | C _J pF | T _{RR} nS | L in. | D in. | d in. | l in. |
|-------------|-----------------------|--------------------------|--------------------------|---------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|----------|----------|----------|----------|
| HV37-08 | 8000 | 210 | 410 | 12.0 | 2 | 10 | 15 | 7.4 | 150 | 0.60 | 0.17 | 0.032 | 0.94 |
| HV37-08F | 8000 | 210 | 410 | 14.5 | 2 | 10 | 15 | 4.7 | 50 | 0.60 | 0.17 | 0.032 | 0.94 |
| HV37-10 | 10000 | 190 | 365 | 13.0 | 2 | 10 | 15 | 6.0 | 150 | 0.60 | 0.17 | 0.032 | 0.94 |
| HV37-10F | 10000 | 190 | 365 | 17.0 | 2 | 10 | 15 | 5.0 | 65 | 0.60 | 0.17 | 0.032 | 0.94 |
| HV37-12 | 12000 | 170 | 340 | 15.0 | 2 | 10 | 15 | 5.0 | 150 | 0.60 | 0.17 | 0.032 | 0.94 |
| HV37-12F | 12000 | 170 | 340 | 19.5 | 2 | 10 | 15 | 5.0 | 65 | 0.60 | 0.17 | 0.032 | 0.94 |
| HV37-15 | 15000 | 150 | 300 | 20.0 | 2 | 10 | 15 | 3.5 | 150 | 0.60 | 0.17 | 0.032 | 0.94 |
| HV37-15F | 15000 | 150 | 300 | 24.5 | 2 | 10 | 15 | 3.5 | 65 | 0.60 | 0.17 | 0.032 | 0.94 |
| HV37-20 | 20000 | 100 | 220 | 26.0 | 2 | 10 | 15 | 3.0 | 150 | 0.60 | 0.17 | 0.032 | 0.94 |
| HV37-20F | 20000 | 100 | 220 | 32.0 | 2 | 10 | 15 | 3.0 | 65 | 0.60 | 0.17 | 0.032 | 0.94 |
| HV07-12B | 12000 | 225 | 500 | 11.0 | 2 | 10 | 30 | - | - | 0.60 | 0.17 | 0.032 | 0.94 |

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

¹25°C ambient temperature unless stated otherwise.

Drawings

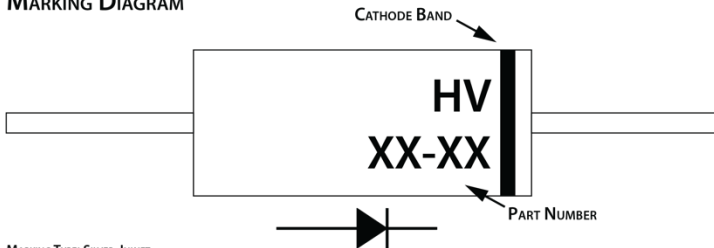


Dimensions in inches, tolerances ±0.020 except as noted

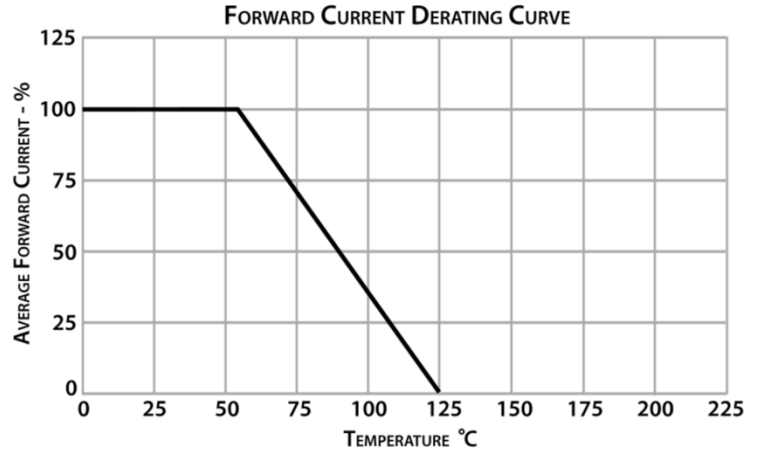


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MARKING DIAGRAM



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_{FAVM} | Maximum Average Forward Current | At $T_A = 40^\circ\text{C}$, In Air |
| I_{FAVM} | Maximum Average Forward Current | At $T_A = 55^\circ\text{C}$, In Oil |
| V_F | Maximum Forward Voltage Drop | At 100mA |
| I_{R1} | Maximum Leakage Current | At V_{RRM} |
| I_{R2} | Maximum Leakage Current | At V_{RRM} , 100°C |
| 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 | $I_F = 0.5 I_{FAVM1}$; $I_R = -I_{FAVM1}$; $I_{RR} = -0.25 I_{FAVM1}$ |

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

