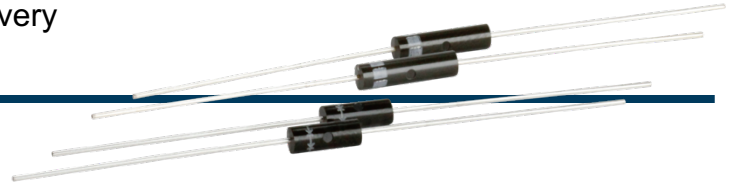




HVTD SERIES

3 to 7kV, 35 to 50mA, Standard Recovery
Axial Lead High Temperature Diodes



Features

- High Temperature Range, -55 to +200°C
- Miniature Package
- Molded Plastic Body, ANSI/UL94 V-0 Rated Material

Specifications¹

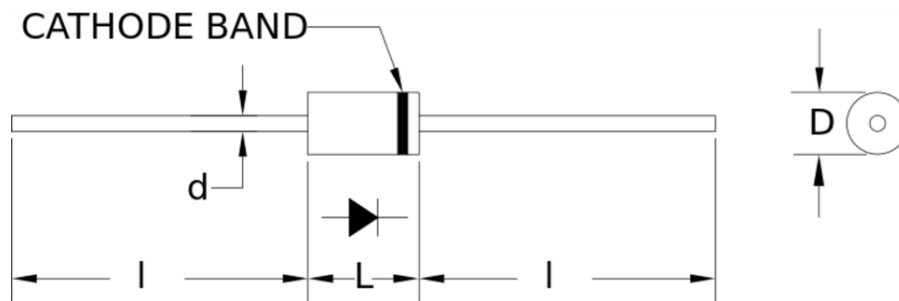
Part Number	V _{RRM} V	I _{FAVM1} mA	I _{FAVM2} ² mA	V _F V	I _{R1} μA	I _{R2} ² μA	I _{FSM} A	L in.	D in.	d in.	l in.
HVTD3	3000	50	1	25	0.5	18.0	3	0.40	0.10	0.023	0.94
HVTD5L	5000	35	5	25	0.5	5.0	3	0.40	0.10	0.023	0.94
HVTD5	5000	50	5	15	0.5	15.0	3	0.32	0.12	0.023	0.94
HVTD6	6000	35	5	25	0.5	7.5	3	0.40	0.10	0.023	0.94
HVTD7	7000	35	5	25	0.5	7.5	3	0.40	0.10	0.023	0.94

Temperature °C	
Storage Temperature	-55 to 175
Operating Temperature	-55 to 200 (HVTD3) -55 to 175 (All other models)
Maximum Junction Temperature	200 (HVTD3) 175 (All other models)

¹25°C ambient temperature unless stated otherwise.

²Check Specification Definitions for conditions details.

Drawings

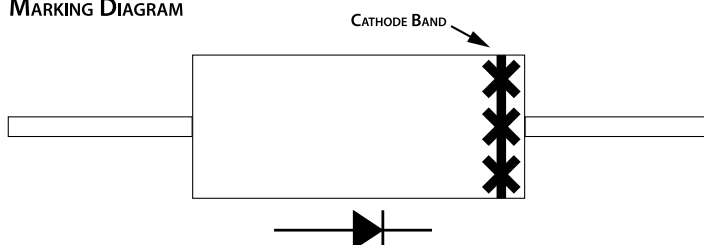


Dimensions in inches, tolerances ±0.020 except as noted

HVTD3, HVTD5L, HVTD5

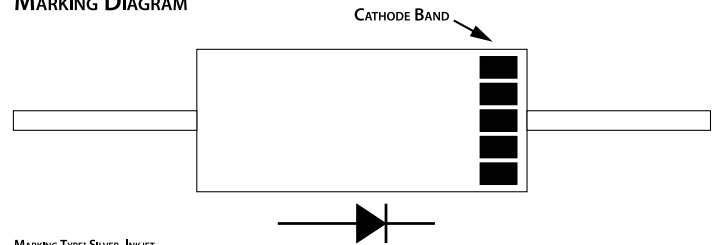
HVTD6, HVTD7

MARKING DIAGRAM



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

MARKING DIAGRAM

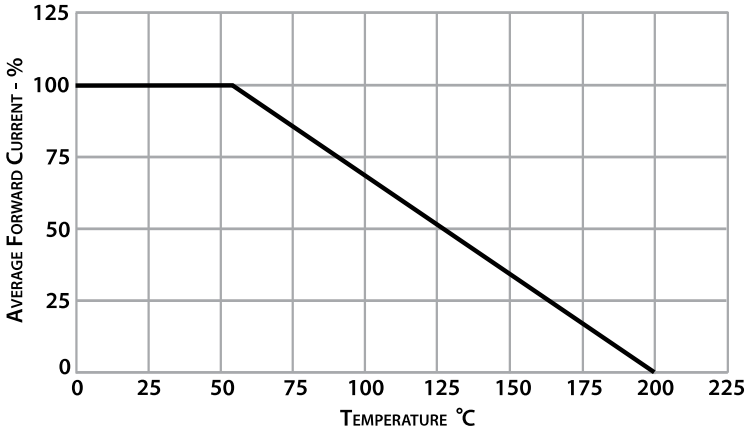


MARKING TYPE: SILVER, INKJET
(MARKINGS WILL WRAP ENTIRE BODY OF DIODE AND ARE SUBJECT TO MINOR CHANGES)



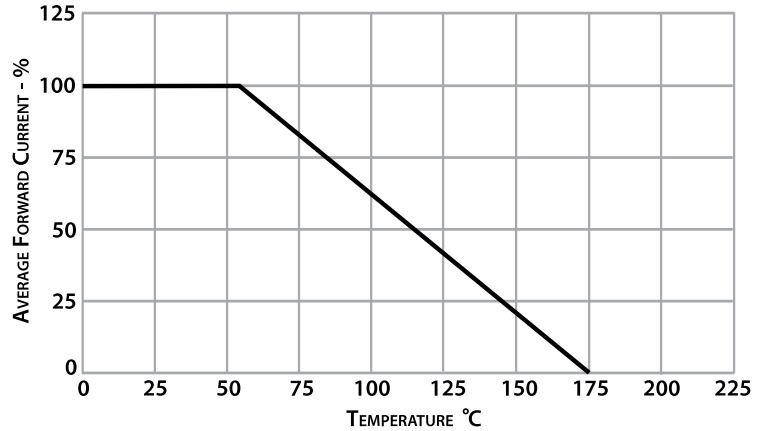
HVTD3

FORWARD CURRENT DERATING CURVE



All other models

FORWARD CURRENT DERATING CURVE



Specification Definitions

Specifications		Conditions
V_{RRM}	Maximum Repetitive Reverse Voltage	-
I_{FAVM1}	Maximum Average Forward Current	At T _A = 55°C, In Oil
I_{FAVM2}	Maximum Average Forward Current	At T _A = 200°C, In Oil (<i>HVTD3</i>) At T _A = 175°C, In Oil (<i>All other models</i>)
V_F	Maximum Forward Voltage Drop	At I _{FAVM}
I_{R1}	Maximum Leakage Current	At V _{RRM}
I_{R2}	Maximum Leakage Current	At V _{RRM} , 200°C In Oil, Typical (<i>HVTD3</i>) At V _{RRM} , 175°C In Oil (<i>All other models</i>)
I_{FSM}	Maximum Surge Current	At 8.3mS, Single Half Sine

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

