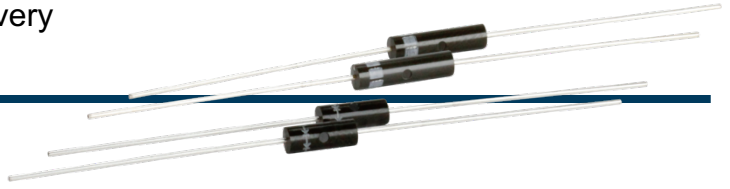




HVTD SERIES

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

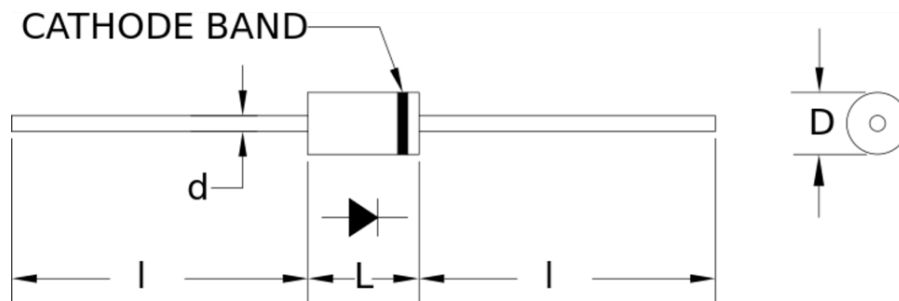
Part Number	V _{RRM} V	I _{FAVM1} mA	I _{FAVM2} ² mA	V _F V	I _{R1} μA	I _{R2} ² μA	I _{FSM} A	L in.	D in.	d in.	l in.
HVTD3	3000	50	1	25	0.5	18.0	3	0.40	0.10	0.023	0.94
HVTD5L	5000	35	5	25	0.5	5.0	3	0.40	0.10	0.023	0.94
HVTD5	5000	50	5	15	0.5	15.0	3	0.32	0.12	0.023	0.94
HVTD6	6000	35	5	25	0.5	7.5	3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

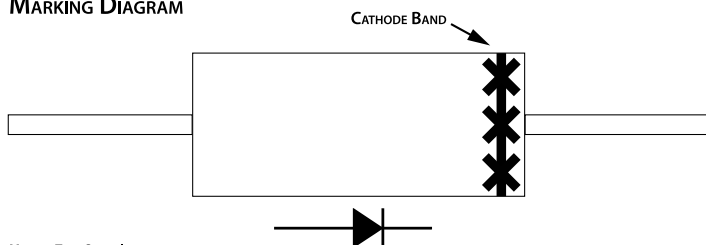


Dimensions in inches, tolerances ±0.020 except as noted

HVTD3, HVTD5L, HVTD5

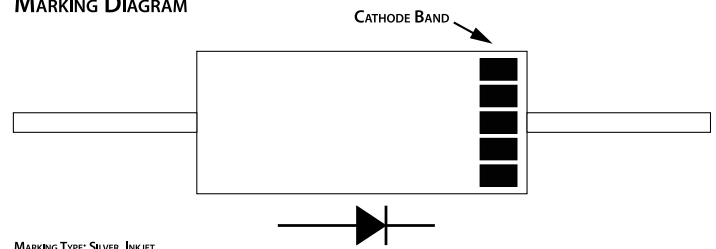
HVTD6, HVTD7

MARKING DIAGRAM



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

MARKING DIAGRAM



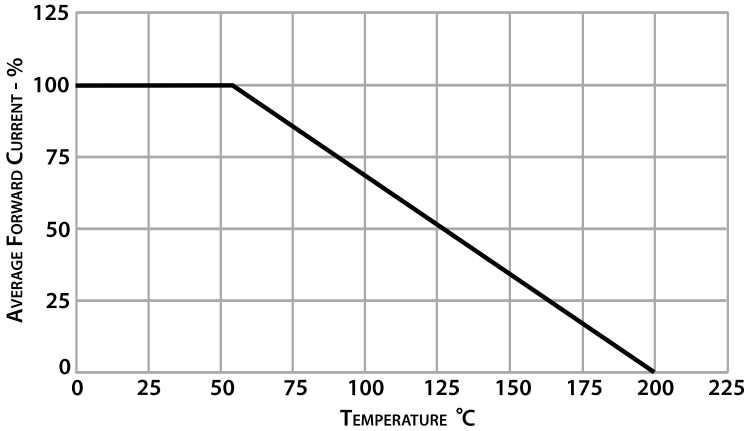
MARKING TYPE: SILVER, INKJET
(MARKINGS WILL WRAP ENTIRE BODY OF DIODE AND ARE SUBJECT TO MINOR CHANGES)



HVTD SERIES

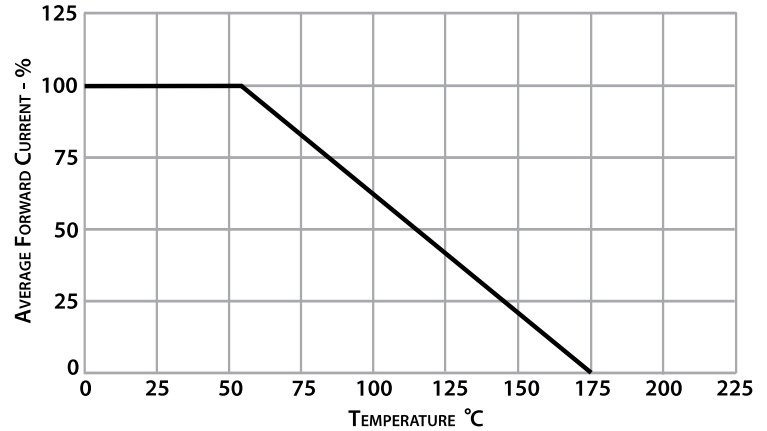
HVTD3

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.

