



HVTDR SERIES

3 to 7kV, 25mA, Fast Recovery
Axial Lead High Temperature Diodes



Features

- High Temperature Range, -55 to +175°C
- Miniature Package
- Molded Plastic Body, ANSI/UL94 V-0 Rated Material

Specifications¹

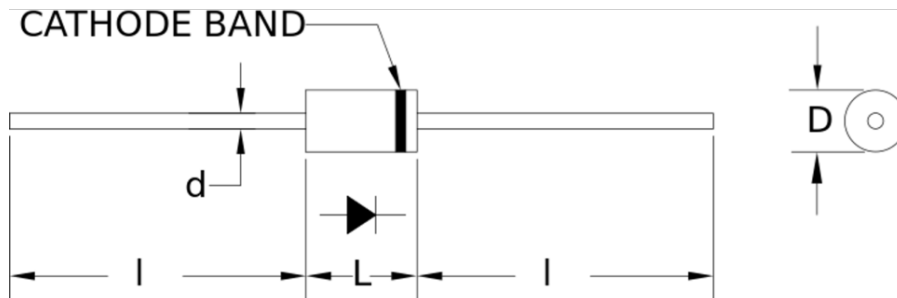
Part Number	V _{RRM} V	I _{FAVM1} mA	I _{FAVM2} ² mA	V _F V	I _{R1} μA	I _{R2} ² μA	I _{FSM} A	T _{RR1} nS	T _{RR2} ² nS	L in.	D in.	d in.	I in.
HVTDR3	3000	25	1	25	0.2	14	3	100	300	0.26	0.10	0.023	0.94
HVTDR4	4000	25	1	25	0.2	15	3	100	300	0.26	0.10	0.023	0.94
HVTDR5	5000	25	1	25	0.2	16	3	100	300	0.26	0.10	0.023	0.94
HVTDR6	6000	25	1	25	0.2	18	3	100	300	0.26	0.10	0.023	0.94
HVTDR7	7000	25	1	25	0.2	20	3	100	300	0.26	0.10	0.023	0.94

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

¹125°C ambient temperature unless stated otherwise.

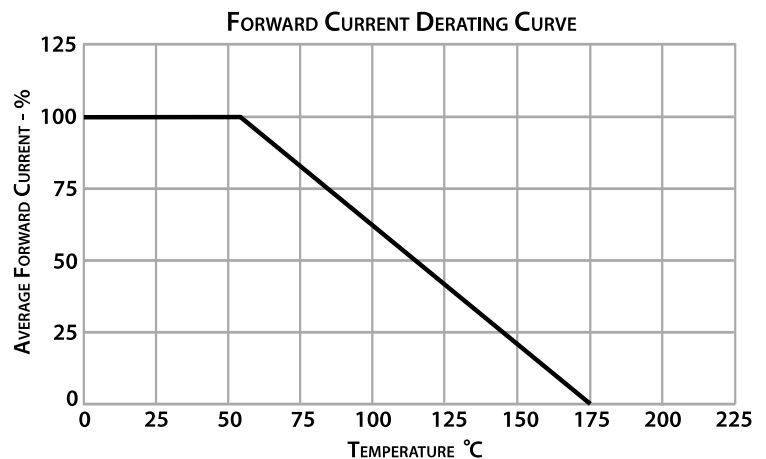
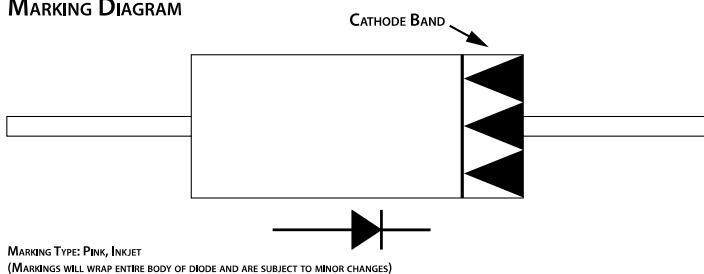
²Check Specification Definitions for conditions details.

Drawings



Dimensions in inches, tolerances ±0.020 except as noted

MARKING DIAGRAM





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Specification Definitions

Specifications		Conditions
V_{RRM}	Maximum Repetitive Reverse Voltage	-
I_{FAVM1}	Maximum Average Forward Current	At $T_A = 55^\circ\text{C}$, In Oil
I_{FAVM2}	Maximum Average Forward Current	At $T_A = 175^\circ\text{C}$, In Oil
V_F	Maximum Forward Voltage Drop	At 25mA
I_{R1}	Maximum Leakage Current	At V_{RRM}
I_{R2}	Maximum Leakage Current	At V_{RRM} , 175°C , In Oil
I_{FSM}	Maximum Surge Current	At 8.3mS, Single Half Sine
T_{RR1}	Maximum Reverse Recovery Time	At $I_F = 0.5 I_{FAVM1}$; $I_R = -I_{FAVM1}$; $I_{RR} = -0.25 I_{FAVM1}$
T_{RR2}	Typical Reverse Recovery Time	At $I_F = 20\text{mA}$; $I_R = -40\text{mA}$; $I_{RR} = -10\text{mA}$

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