



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

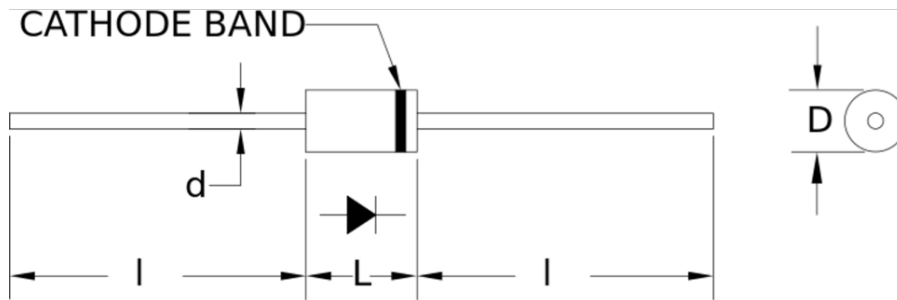
Part Number	V _{RRM} V	I _{FAVM1} mA	I _{FAVM2} ² mA	V _F V	I _{R1} μA	I _{R2} ² μA	I _{FSM} A	T _{RR1} nS	T _{RR2} ² nS	L in.	D in.	d in.	I in.
HVTDR3	3000	25	1	25	0.2	14	3	100	300	0.26	0.10	0.023	0.94
HVTDR4	4000	25	1	25	0.2	15	3	100	300	0.26	0.10	0.023	0.94
HVTDR5	5000	25	1	25	0.2	16	3	100	300	0.26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

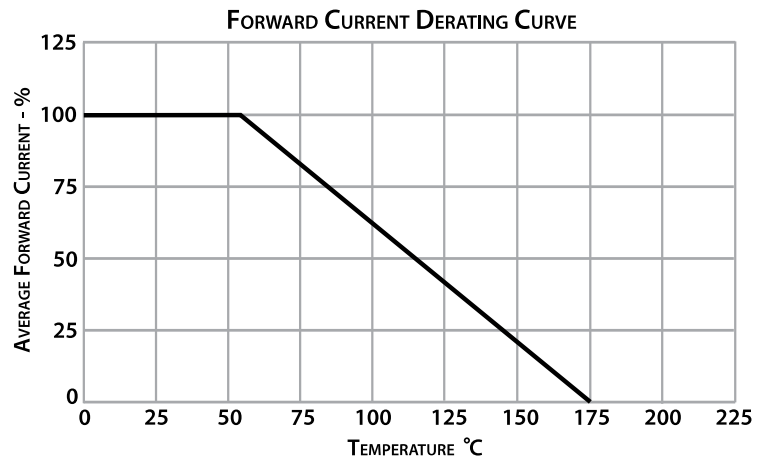
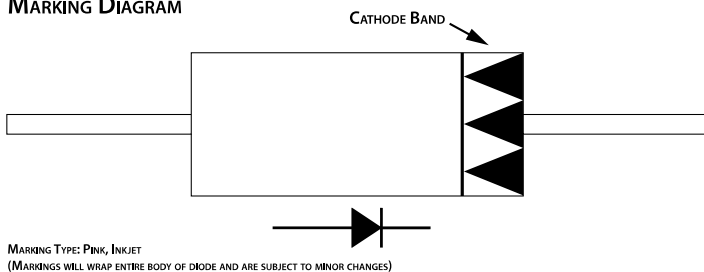
²Check Specification Definitions for conditions details.

Drawings



Dimensions in inches, tolerances ±0.020 except as noted

MARKING DIAGRAM





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 = 175°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 = 20mA; I _R = -40mA; I _{RR} = -10mA

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

