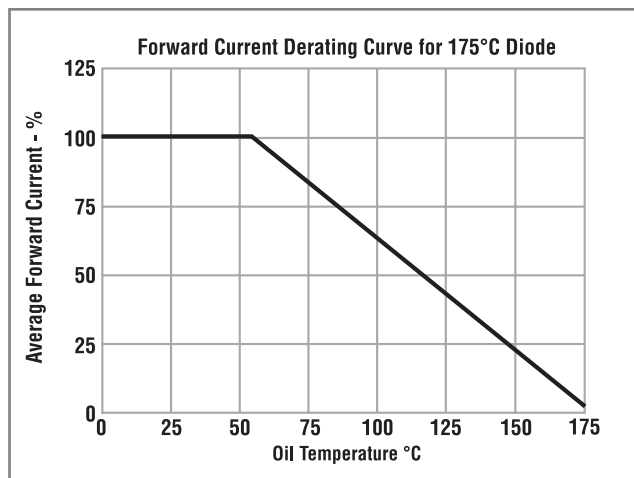
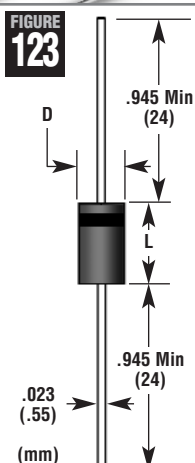




High Temperature Use With Low Reverse Leakage

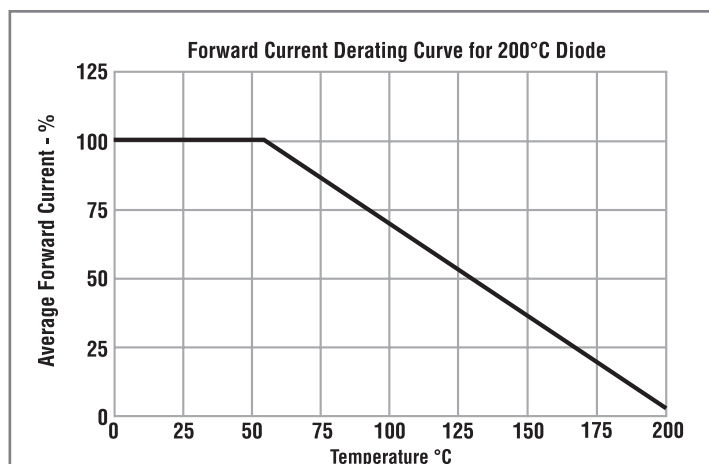
Applications

- Downhole Use
- Oil Well Drilling
- Automotive



HVCA Number	Repetitive Peak Reverse Voltage V_{RRM} (Volts)	Avg. Forward Current Max $I_{FAVM@55^{\circ}C}$ Oil mA (milliAmps)	Avg. Forward Current Max. $I_{FAVM @ 175^{\circ}C}$ Oil mA (milliAmps)	Max. Forward Voltage Drop $V_F@I_{FAVM@25^{\circ}C}$ (Volts)	Max. Reverse Current $I_R@25^{\circ}C$ μA (microAmps)	Max. Reverse Current $I_R@175^{\circ}C$ μA (microAmps)	Max. Surge Current I_{FSM} (8.3ms) A (Amps)	Typical Reverse Recovery Time T_{RR} (nsec)	Fig. 123 Length (inches)	Diameter (inches)
High Temp Diode Ambient Operating Temperature Range -55°C to +175°C										
HVTD5	5000	50	5	15	0.5	15	3	-	0.32	0.12
HVTD5L	5000	35	5	25	0.5	5	3	-	0.47	0.12
HVTD6	6000	35	5	25	0.5	7.5	3	-	0.47	0.12
HVTD7	7000	35	5	25	0.5	7.5	3	-	0.47	0.12
Fast Recovery High Temp Diode Ambient Operating Temperature Range -55°C to +175°C										
HVTDR3	3000	25	1	25.0	0.20	14.0	3	100 @25°C 300@175°C	0.26	0.10
HVTDR4	4000	25	1	25.0	0.20	15.0	3	100 @25°C 300@175°C	0.26	0.10
HVTDR5	5000	25	1	25.0	0.20	16.0	3	100 @25°C 300@175°C	0.26	0.10
HVTDR6	6000	25	1	25.0	0.20	18.0	3	100 @25°C 300@175°C	0.26	0.10
HVTDR7	7000	25	1	25.0	0.20	20.0	3	100 @25°C 300@175°C	0.26	0.10

High Temperature Custom Assemblies are Available



HVCA Number	Repetitive Peak Reverse Voltage V_{RRM} (Volts)	Avg. Forward Current Max $I_{FAVM@55^{\circ}C}$ Oil mA (milliAmps)	Avg. Forward Current Max. $I_{FAVM @ 200^{\circ}C}$ Oil mA (milliAmps)	Max. Forward Voltage Drop $V_F@I_{FAVM@25^{\circ}C}$ (Volts)	Max. Reverse Current $I_R@25^{\circ}C$ μA (microAmps)	Max. Reverse Current $I_R@200^{\circ}C$ μA (microAmps)	Max. Surge Current I_{FSM} (8.3ms) A (Amps)	Typical Reverse Recovery Time T_{RR} (nsec)	Fig. 123 Length (inches)	Diameter (inches)
High Temp Diode Ambient Operating Temperature Range -55°C to +200°C										
HVTD3	3000	50	1	25	0.5	30.0 Max 18.0 Typ	3	-	0.47	0.12

Note: I_R is measured in oil after voltage has been applied for 3 minutes on all HVTD Series Diodes.