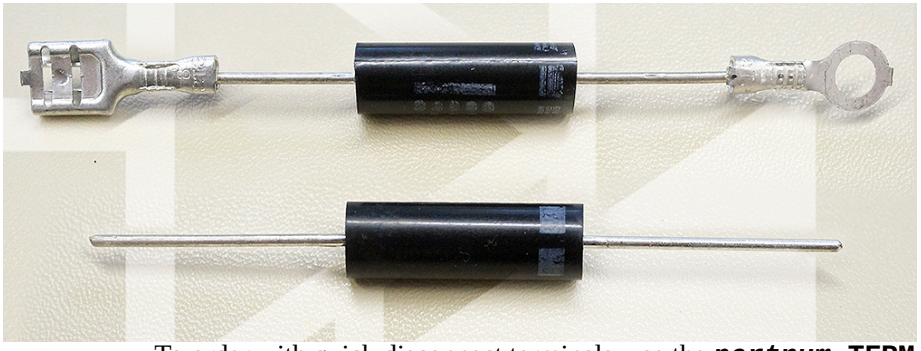
AMERICAN MICROSEMICONDUCTOR

AMS-15KV

Technical Specifications

FEATURES

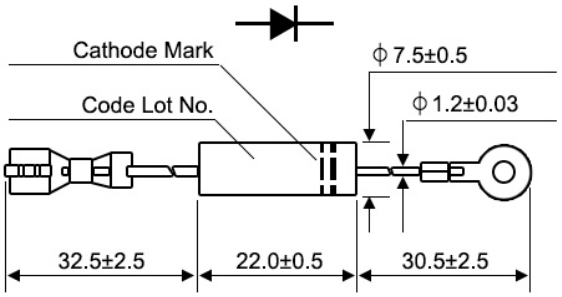
- Avalanche Breakdown Protection
- Low Forward Voltage Drop
- Typical IR less than 0.1 µA
- High Overload Surge Capacity



To order with quick disconnect terminals, use the ***partnum*-TERM**

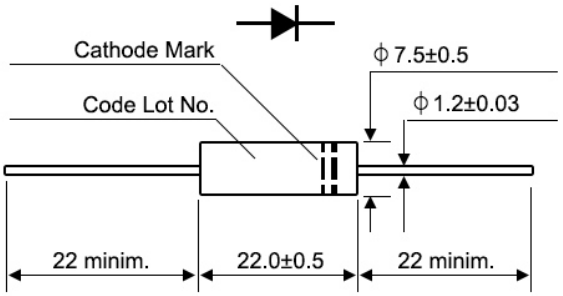
ABSOLUTE MAXIMUM RATINGS

V_{RRM}	Repeating Peak Reverse Voltage (kV):	15
T_{JMAX}	Max. junction temp.(°C):	120
T_{STG}	Storage temp.(°C):	-40 to +120
I_O	Avg. Forward Current (mA):	550
I_{FSM}	Forward Surge Current (A):	44



ELECTRICAL CHARACTERISTICS

I_{R1}	Normal temp. Reverse Current (µA):	5.0 max
I_{R2}	High temp. Reverse Current (µA):	50 max
V_F	Forward Voltage (V):	12 max

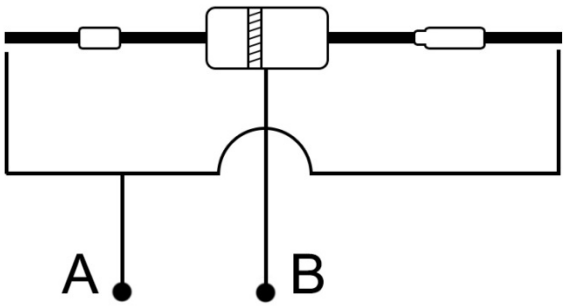


TEST CONDITIONS

High temp. Reverse Voltage @ 1000 hrs.:	$V_{RM}=V_{RRM}$, f=50Hz, T_{AMB}=100°C Half sine voltage with f=50Hz applied, T_{AMB}=100°C
High temp. storage @ 1000 Hrs.:	T_{AMB}=130±2°C
Soldering Resistance Heat Test:	Solder trough temp.: 350±10°C, Dip Time: 3.5s ± 0.5s
High pressure smoke test @ 10 hrs.:	120°C, 2 x 10^5pa
Insulation Resistance Test (1000MΩ):	Between the center of the body and terminal *(See Fig. 1)*
Insulation Strength Test @ 10KV:	1 min. between center of the body and terminal. *(Fig.1)*
Lead bend test:	Force 10 N to the lead, bent it to pos. and neg. 90°
Lead pull test:	Force 70 N of axial to the lead for 1 min.

Insulation resistance test condition: Measure between A and B by using a DC 500V Insulation resistance tester

Insulation strength test condition: Apply half sine wave voltage with 10kV wave height between A and B in insulation liquid



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