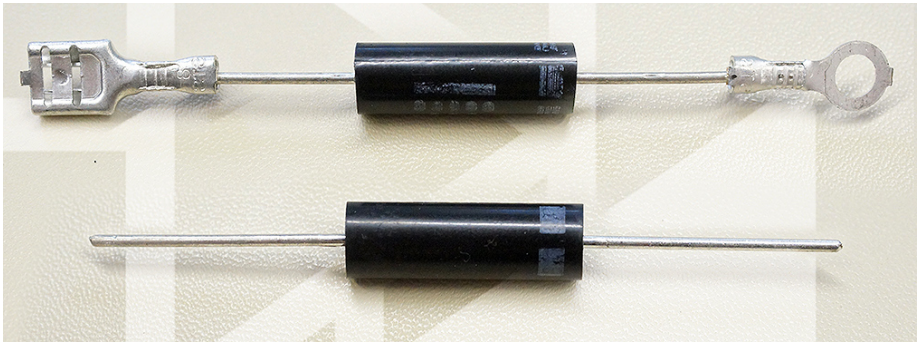
AMERICAN MICROSEMICONDUCTOR

# AMS-04-15

Technical Specifications

## FEATURES

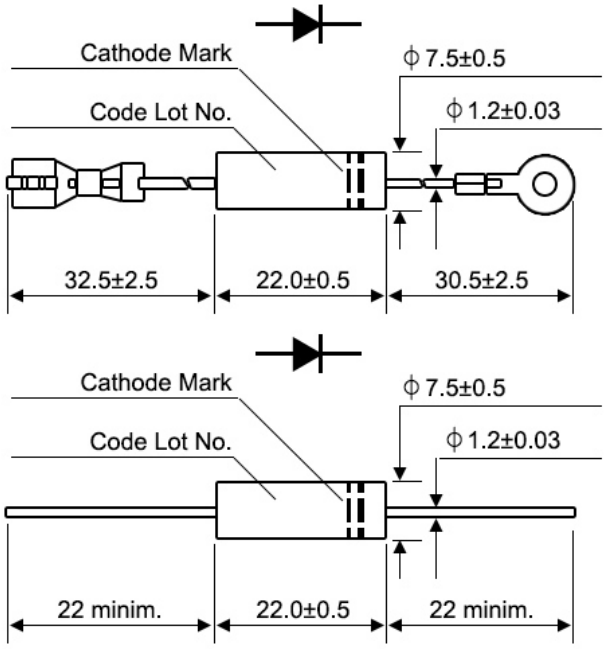
- High Overload Surge Capacity
- Durable Epoxy Resin Package



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): | 130 |
| $T_{STG}$ | Storage temp.(°C): | -40 to +130 |
| $I_O$ | Avg. Forward Current (mA): | 500 |
| $I_{FSM}$ | Forward Surge Current (A): | 40 |




## ELECTRICAL CHARACTERISTICS

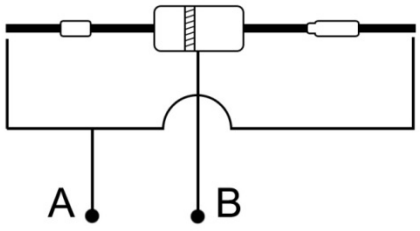
| | |
|---|---|
| $I_{R1}$ Normal temp. Reverse Current (μA) @ $V_R=V_{RRM}$, $T_{amb}=25°C$: | 5.0 max |
| $I_{R2}$ High temp. Reverse Current (μA) @ $V_R=V_{RRM}$, $T_{amb}=100°C$: | 50 max |
| $V_F$ Forward Voltage Drop (V) @ $I_F=500mA$: | 13.0 |
| Reverse Breakdown Voltage (kV) @ $I_R=100\mu A$: | ≥15 |

## 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.: | $T_{AMB}=130\pm2°C$ |
| 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 $10^5$pa |
| 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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