

AMS-04-15

Technical Specifications

FEATURES

- High Overload Surge Capacity
- Durable Epoxy Resin Package



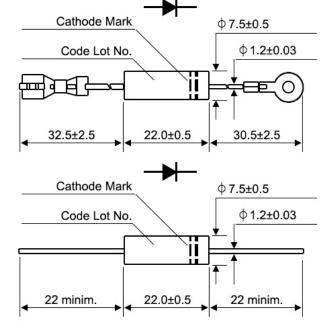
To order with quick disconnect terminals, use the partnum-TERM

ABSOLUTE MAXIMUM RATINGS

 $\begin{array}{lll} V_{RRM} & Repeating \ Peak \ Reverse \ Voltage \ (kV): \ 15 \\ T_{JMAX} & Max. \ junction \ temp.(^{\circ}C): & 130 \\ T_{STG} & Storage \ temp.(^{\circ}C): & -40 \ to +130 \\ I_{O} & Avg. \ Forward \ Current \ (mA): & 500 \\ I_{FSM} & Forward \ Surge \ Current \ (A): & 40 \end{array}$

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)	
@ $I_F = 500 \text{mA}$:	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.: $T_{AMB}=130\pm2^{\circ}C$

Soldering Resistance Heat Test: Solder trough temp.: 350±10°C,

Dip Time: $3.5s \pm 0.5s$ 120°C 2 x 10⁵pa

High pressure smoke test @ 10 hrs.: 120°C, 2 x 10⁵pa

Insulation Resistance Test (1000M Ω): 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) 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

