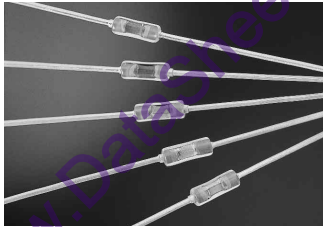


Subminiature Circuit Protector

Axial Lead Overcurrent Protection

DO-35



Catalog Symbol: DO-35
Voltage Rating: 32V ac/dc
Interrupting Rating: 50 Amp AC, Power Factor = 1.0
 50 Amp DC, Battery Source

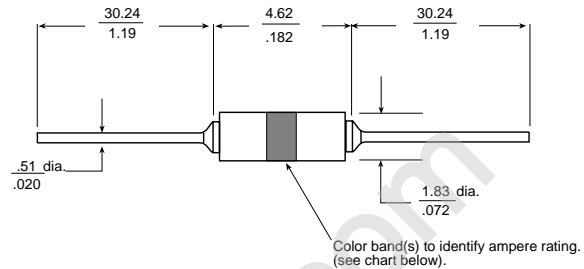
Physical Size:
 EIA/JEDEC Publication 95; Outline DO-35; Axial Leads
Agency Approvals:
 U.L. Recognized, Std. 248-14, File E19180, Guide JDYX2
 CSA Component Acceptance, File 53787, Class 1422-30

- General Information:**
- Economical overcurrent protection.
 - Compatible with wave soldering.
 - Unaffected by rigorous board washing operations.
 - Excellent environmental integrity.
 - One time positive disconnect.

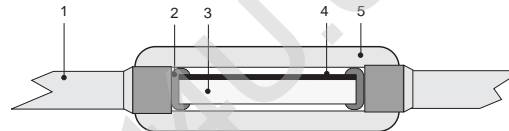
Interruption Time:
 10 Sec. max. @ 250% rated current
 1 mSec. typ. @ 500% rated current

Environmental Specifications:
 Operating Temperature Range:
 -55°C to + 125°C, with proper derating.
 Thermal Shock:
 MIL-STD-202, Method 107, Test Condition B (-65°C to 125°C).
 Vibration:
 MIL-STD-202, Method 204, Test Condition C
 (55 to 2000 Hz, 10G).
Solderability:
 Withstands 60 seconds above 200°C, 260°C maximum.
Moisture Resistance:
 MIL-STD-202, Method 106, 10 day cycle.

Dimensions: mm (±0.13)
 inches (±0.005)



Construction:



1. Lead assembly, tin-lead dipped.
2. End termination.
3. Ceramic substrate.
4. Metal film fuse element.
5. Glass tube.

Packaging and Ordering Information:

Tape and Reel: In compliance with EIA-296-E or EIA-468-A.

| | | |
|--|-----------------------|----------------------|
| | DO-35 | (See Table) |
| | Product Symbol | Rated Current |

Package Code
Blank = 10 pieces, bulk packed
BK = 500 pieces, bulk packed
TR = 2,500 pieces, tape/reel, 52.4mm tape to tape spacing per EIA-296-E
TR1 = 5,000 pieces, tape/reel, 52.4mm tape to tape spacing per EIA-296-E
TR2 = 2,500 pieces tape/reel, radial configuration, 5.08mm lead to lead spacing per EIA-468-A.
 Contact Bussmann if other package quantities are required.

Electrical Characteristics

| Part Number (xx = Package Code) | Current Rating (Amperes) | Color Code Color # of Bands | Typ. Resistance @ ≤ 10% Rated Current (Ohms) | Typical Voltage Drop @ Rated Current (Volts) |
|------------------------------------|-----------------------------|--------------------------------|---|--|
| xx/DO-35-250mA | .25 | Green 1 | 4.5 | 1.4 |
| xx/DO-35-375mA | .375 | Green 2 | 3.0 | 1.35 |
| xx/DO-35-400mA | .400 | NA 0 | 3.0 | 1.2 |
| xx/DO-35-500mA | .5 | Blue 1 | 1.4 | 0.84 |
| xx/DO-35-750mA | .75 | Orange 2 | 0.55 | 0.50 |
| xx/DO-35-1A | 1 | Brown 1 | 0.32 | 0.39 |
| xx/DO-35-1.5A | 1.5 | Brown 2 | 0.15 | 0.27 |
| xx/DO-35-2A | 2 | Black 1 | 0.10 | 0.26 |
| xx/DO-35-2.5A | 2.5 | Black 2 | 0.072 | 0.23 |
| xx/DO-35-3A | 3 | Yellow 1 | 0.05 | 0.20 |
| xx/DO-35-3.5A | 3.5 | Yellow 2 | 0.04 | 0.19 |

- General Notes:
 1. Device designed to carry rated current for four hours minimum. An operating current of 80% or less of rated current is recommended, with further derating required at elevated ambient temperatures.
 2. All measurements made at 23 ± 3°C ambient temperature with the device mounted on a suitable circuit board trace.