Blade Fuses





MICRO2[™] Blade Fuses



MICR02[™] Sn (Tin plated) Blade Fuses

Dimensions

Dimensions in mm





Temperature Rerating Curve



MICRO2[™] Blade Fuses Rated 32V

The MICRO2™ Fuse is the new standard for vehicle circuit protection. Its sub-miniature design meets the need for more circuits to be protected while utilizing less space and its ability to cope with high temperatures in adverse environments makes the MICRO2™ Fuse of recommended choice for protection.

Black amperage stamps are used on the 20A & 25A / light colored housings to improve contrast for vision system inspection.

| Specifications | MICR02 | MICR02 Sn |
|--|---|-----------------------------------|
| | (Silver Plated) | (Tin Plated) |
| Voltage Rating: | 32 VDC | 32 VDC |
| Interrupting Ratings: | 1000A @ 32 VDC | 1000A @ 32 VD0 |
| *Component Level Temperature Range: **System Level Temperature Range: 105°C and 85°C are typical system level temper | -40°C to +125°C -40°C to +105°C ature requirements. | -40°C to +105°C -40°C to +85°C |
| Terminals: | Ag plated zinc alloy | Sn plated zinc al |
| Housing Material: | PA66 | PA66 |
| Conforms to: | SAE 2741 and ISO 8820-3 in reference to electr | |
| and environmental performa | | ince requirements |

RoHS

Ordering Information

| Part Number | Package Size | | | |
|----------------|--------------|--|--|--|
| 0327xxx.YX2S | 4000 | | | |
| 0327xxx.UXS | 500 | | | |
| 0327xxx.LXS | 50 | | | |
| MICRO2 Sn Fuse | | | | |
| 0327xxx.YX2T | 4000 | | | |

Ratings

| - | | | | | |
|-------------|-----------------------|---------------------------|---------------------------|-------------------------|--------------|
| Part Number | Current Rating (A) | Housing Material Color | Typ. Voltage Drop (mV) | Cold Resistance (mΩ) | l²t (A²s) |
| 0327005 | 5 | | 116 | 17.4 | 17 |
| 032707.5_ | 7.5 | | 106 | 10.8 | 47 |
| 0327010 | 10 | | 102 | 7.7 | 89 |
| 0327015 | 15 | | 94 | 4.9 | 189 |
| 0327020 | 20 | | 91 | 3.5 | 397 |
| 0327025 | 25 | | 90 | 2.6 | 585 |
| 0327030 | 30 | | 88 | 2.1 | 1028 |

Time-Current Characteristic Curves



*Component Level Temperature = the maximum ambient temperature that a single fuse will survive. This does not factor-in the heat from a populated fuse box, but does include the heat from the current load with the proper rerating. **System Level **Temperature** represents the ambient temperature of the fuse box at a location within the vehicle. The temperature within a populated fuse box (in a given location) will be higher. The limiting factor is the plating. Sn-plating's temperature limit is ≈130°C, and Ag-plating allows up to 150°C at the terminal interface.

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Time-Current Characteristics

Sn plated zinc alloy

8820-3 in reference to electrical, mechanical

| % of Rating | Opening Time Min / Max |
|-------------|------------------------|
| 110 | 100 h / — |
| 135 | 0.75 sec / 120 sec |
| 160 | 0.30 sec / 50 sec |
| 200 | 0.15 sec / 5 sec |
| 350 | 0.04 sec / 0.50 sec |
| 600 | 0.02 sec / 0.100 sec |