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D1UBA100

MINI-BRIDGE RECTIFIER

PRV : 1000 Volts

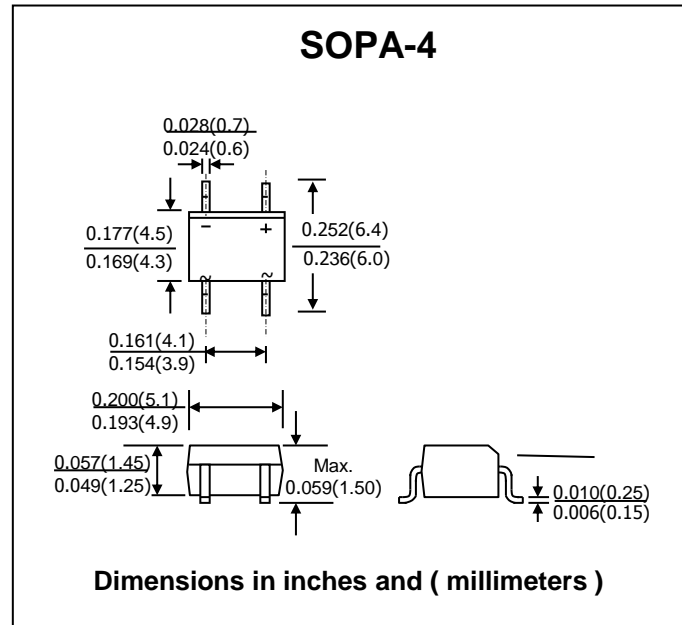
Io : 1.0 Ampere

FEATURES :

- * Glass passivated chip junctions.
- * High surge overload rating : 30A peak
- * Saves space on printed circuit boards.
- * High temperature soldering guaranteed : 260 °C/10 seconds.
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Terminals : Plated Lead solderable per MIL-STD-750, Method 2026
- * Polarity : Polarity symbols marked on body
- * Mounting position : Any
- * Weight : 0.22 gram
- * Marking : UA80



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

| RATING | SYMBOL | VALUE | UNIT |
|--|------------------|------------------------------|------------------|
| Maximum Reverse Voltage | VRRM | 1000 | V |
| Maximum Average Forward Current (60Hz sine wave,R-load) | IF(AV) | 1.0 (On alumina substrate) | A |
| Maximum Peak Forward Surge Current | IFSM | 30 | A |
| Rating for fusing (1ms ≤ t < 10 ms, Tj = 25°C) | I ² t | 3.0 | A ² S |
| Maximum Instantaneous Forward Voltage per element at IF = 0.4 A | VF | 0.95 | V |
| Maximum Reverse Current (VR =VRRm) | IR | 10 | μA |
| Typical Thermal Resistance | RθJA | 80.0 | °C/W |
| Storage Temperature Range | TSTG | - 55 to + 150 | °C |
| Junction Temperature Range | TJ | - 55 to + 150 | °C |



RATING AND CHARACTERISTIC CURVES (D1UBA100)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

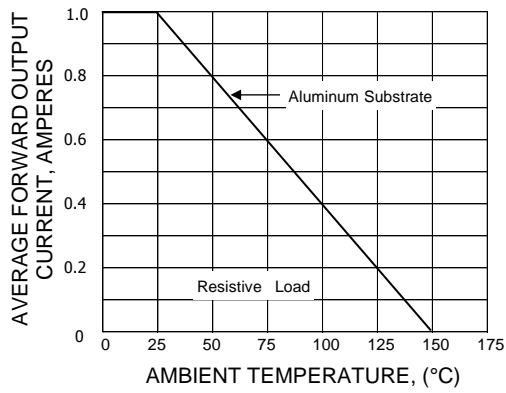


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

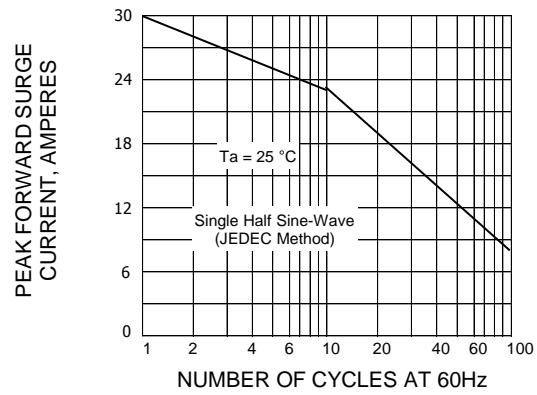


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

