

UNO International Corp.

D3SB10 THRU D3SB80 SINGLE PHASE GLASS PASSIVATED SIP BRIDGE RECTIFIER

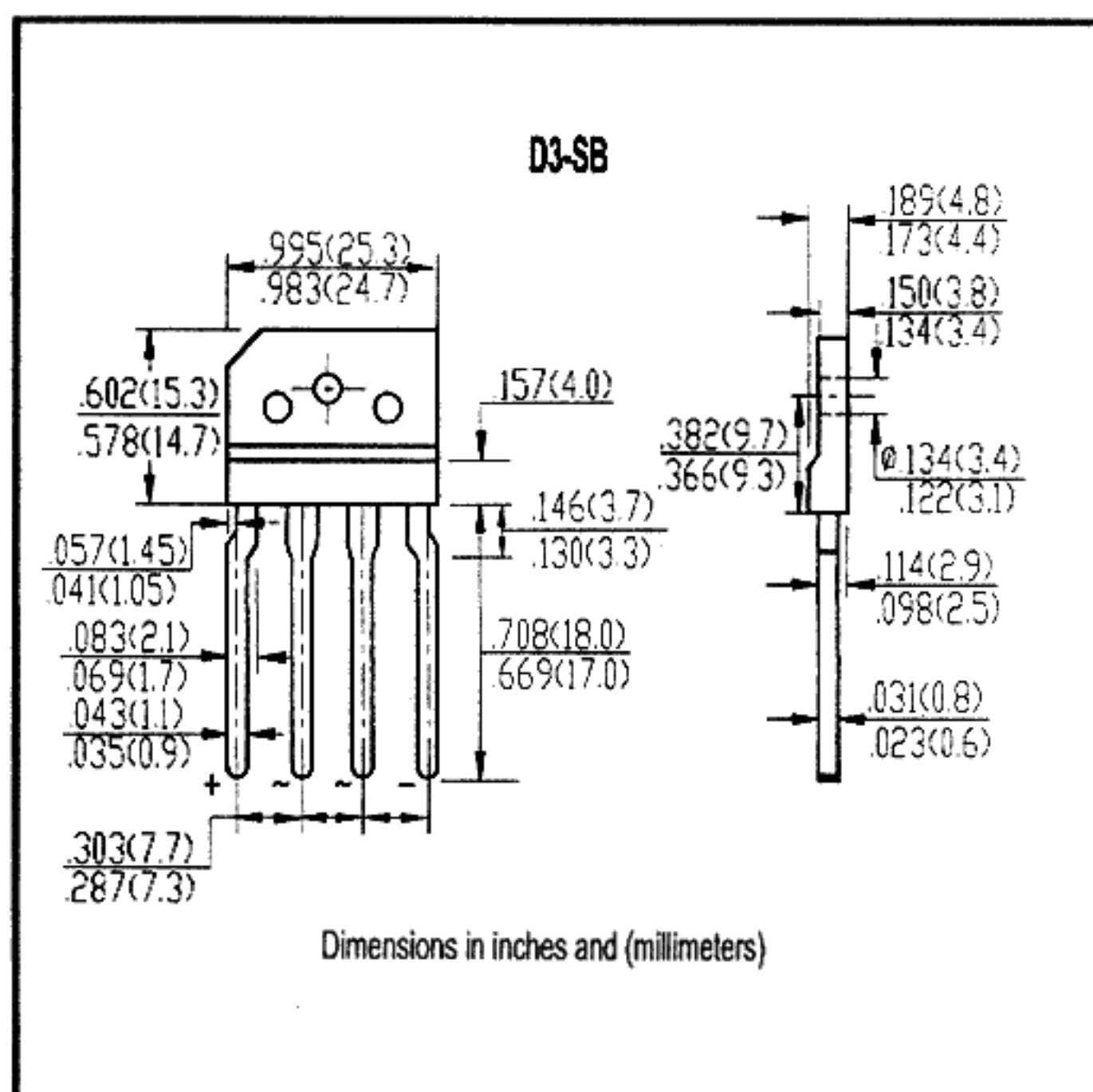
VOLTAGE: 100 TO 800V CURRENT: 4.0A

FEATURE

- Glass passivated junction chip
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating: 120 A peak
- High temperature soldering guaranteed:
250°C/10sec/ 0.375" (9.5mm) lead length at 5 lbs tension

MECHANICAL DATA

Terminal: Plated leads solderable per
MIL-STD 202E, method 208C
Case: UL-94 Class V-0 recognized flame
retardant epoxy
Polarity: Polarity symbol marked on body
Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

| RATINGS | SYMBOL | D3SB10 | D3SB20 | D3SB40 | D3SB60 | D3SB80 | UNITS |
|---|----------------|--------------|--------|--------|--------|--------|--------------------------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 100 | 200 | 400 | 600 | 800 | V |
| Maximum RMS Voltage | V_{RMS} | 70 | 140 | 280 | 420 | 560 | V |
| Maximum DC Blocking Voltage | V_{DC} | 100 | 200 | 400 | 600 | 800 | V |
| Maximum Average Forward Rectified Current ($T_a=50^\circ\text{C}$) | $I_{F(AV)}$ | 4.0 | | | | | A |
| Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load) | I_{FSM} | 120 | | | | | A |
| Maximum Instantaneous Forward Voltage (at forward current 2.0ADC) | V_F | 1.1 | | | | | V |
| Maximum DC Reverse Current $T_a=25^\circ\text{C}$ (at rated DC blocking voltage) $T_a=125^\circ\text{C}$ | I_R | 10 500 | | | | | μA μA |
| Storage and Operating Junction Temperature | T_{STG}, T_J | -55 to + 150 | | | | | $^\circ\text{C}$ |