## SODU1A THRU SODU1M Ultra-Fast Surface Mount Rectifiers

## General description



## FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0 Idea for printed circuit board
- Glass passivated Junction chip Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed $250 \mathrm{C} / 10$ seconds at terminals


## MECHANICAL DATA

- Case : Molded plastic body
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Reverse Voltage : 50 to 1000 V
Forward Current:1.0A
- Polarity : Polarity symbol marking on body
- Mounting Position: Any
- Weight: 0.0007 ounce, 0.02 grams


## Absolute Maximum Ratings( $\mathrm{Ta}=25^{\circ} \mathrm{C}$ unless otherwise specified)

Single phase half-wave 60 Hz , resistive or inductive load, for capacitive load current derate by $20 \%$.

| Parameter | sYMBoLs | SOD <br> U1A | SOD <br> U1B | SOD <br> U1D | SOD <br> U1G | SOD <br> U1J | SOD <br> U1K | SOD <br> U1M | UNITS |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

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## SODU1A THRU SODU1M

## Ratings And Characteristic Curves

FIG．1－DERATING CURVE OUTPUT RECTIFIED CURRENT


FIG．3－TYPICAL FORWARD VOLTAGE CHARACTERISTICS


FIG．2－MAXIMUM NON－REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG


FIG．4－TYPICAL REVERSE LEAKAGE CHARACTERISTICS

Percent Of Rated Peak Reverse Voltage（\％）

## Suggested Soldering Temperature Profile



Note
－Recommended reflow methods：IR，vapor phase oven，hot air oven，wave solder．
－The device can be exposed to a maximum temperature of $265^{\circ} \mathrm{C}$ for 10 seconds．
－Devices can be cleaned using standard industry methods and solvents．
－If reflow temperatures exceed the recommended profile，devices may not meet the performance requirements．

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BAV99HDW-13 NTE6250 NTE582-4 NTE582-6 MMDB30-E28X


[^0]:    NOTES: 1. Reverse Recovery Test Conditions: $\mathrm{IF}=0.5 \mathrm{~A}, \mathrm{IR}=1.0 \mathrm{~A}, \mathrm{Irr}=0.25 \mathrm{~A}$
    2. Measured at 1 MHz and applied $\mathrm{Vr}=4.0$ volts.

