

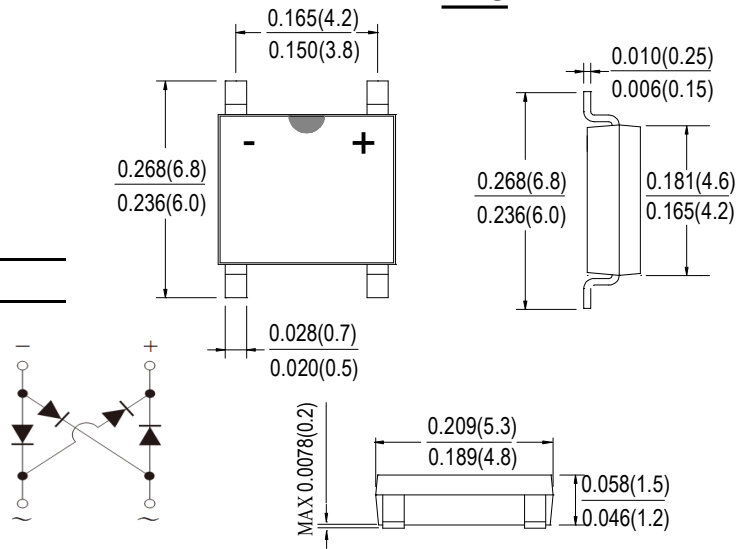
UABS2 THRU UABS10

SINGLE PHASE 0.8 AMP ULTRA FAST GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

ABS



Dimensions in inches and (millimeters)

Mechanical Data

- Case: SOPA-4, molded plastic ABS
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

| TYPE NUMBER | SYMBOL | UABS2 | UABS4 | UABS6 | UABS8 | UABS10 | UNITS |
|---|-----------------|------------|-------|-------|-------|--------|---------------------------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} | | | | | | |
| | V_{RWM} | 200 | 400 | 600 | 800 | 1000 | V |
| | V_{DC} | | | | | | |
| RMS Reverse Voltage | V_{RMS} | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current @ $T_c = 100^\circ\text{C}$ | $I_{F(AV)}$ | 0.8 | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 30 | | | | | A |
| Rating for fusing ($t < 8.3\text{ms}$) | I^2t | 3.74 | | | | | A^2s |
| Forward Voltage per element @ $I_F = 0.8\text{A}$ | V_{FM} | 1.0 | 1.3 | 1.7 | | | V |
| Maximum Reverse Recovery Time (Note 1) | T_{rr} | 50 | | | 75 | | ns |
| Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$ | I_R | 5.0 200 | | | | | μA |
| Typical Thermal Resistance per leg | $R_{\theta JA}$ | 62.5 | | | | | $^\circ\text{C}/\text{W}$ |
| | $R_{\theta JL}$ | 25 | | | | | |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55to+150 | | | | | $^\circ\text{C}$ |

Note: 1.Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.

FIG.1 FORWARD CURRENT DERATING CURVE

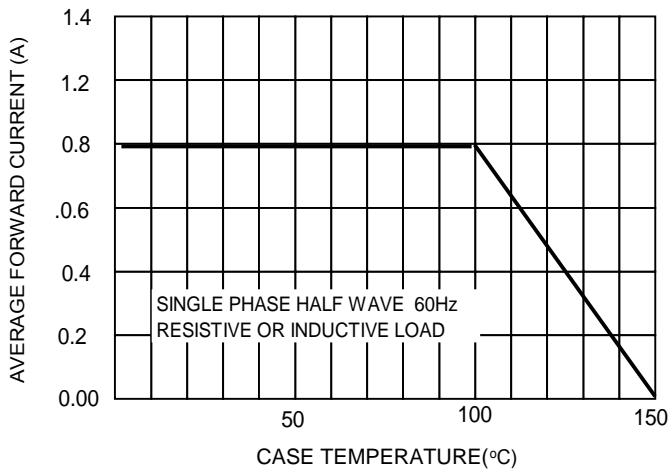


FIG.2 TYPICAL FORWARD CHARACTERISTICS

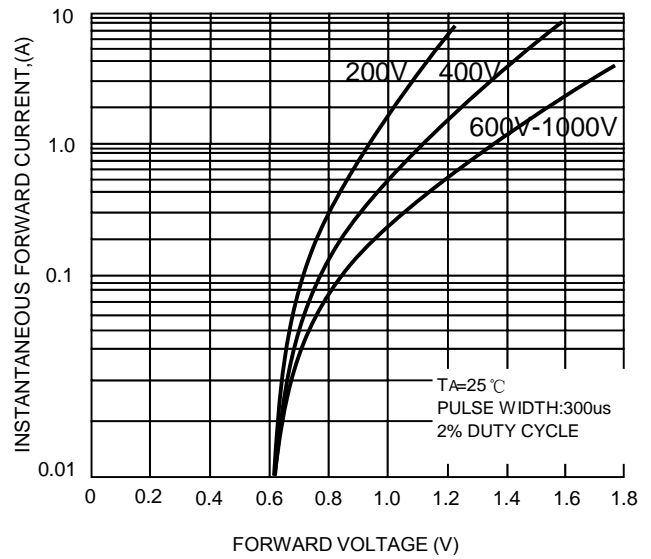


FIG.3 MAXIMUM NON-REPETITIVE

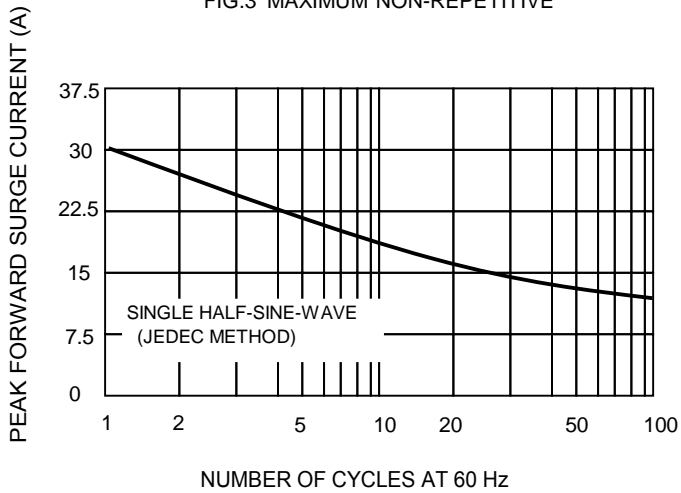
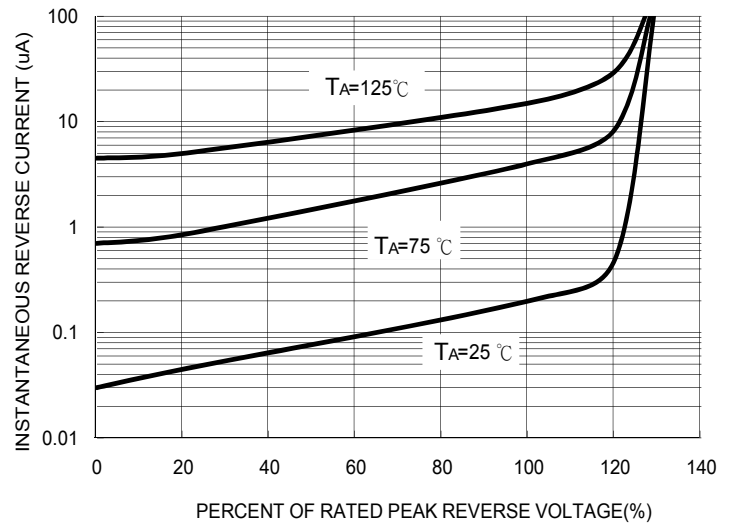
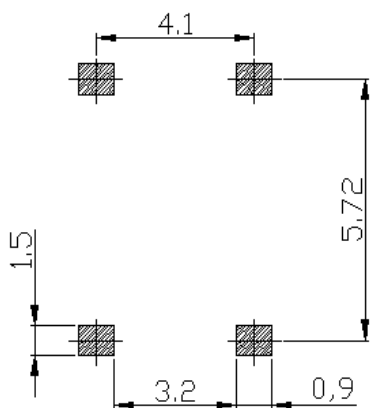


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



ABS PAD LAYOUT



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