

| PARAMETER | SYMBOL | VALUE | UNIT |
|--|--------|-------|------|
| Maximum reverse voltage | VR | 250 | V |
| Peak reverse voltage | Vrrm | 250 | V |
| Average rectified current at temp=25 °C | lo | 0.2 | А |
| Non-repetitive peak forward surge current at t=1µs | IFSM | 4 | А |



BAS21A-AU~BAS21S-AU

THERMAL CHARACTERISTICS

| PARAMETER | SYMBOL | VALUE | UNIT | |
|-------------------------------------|--------|-------------|------|--|
| Power dissipation | Ртот | 250 | mW | |
| Power dissipation (Note 3) | Ртот | 500 | mW | |
| Typical thermal resistance (Note 1) | Reja | 357 | °C/W | |
| Typical thermal resistance (Note 3) | Reja | 250 | °C/W | |
| Typical thermal resistance (Note 2) | Rejc | 250 | °C/W | |
| | Rejl | 285 | | |
| Junction temperature range | TJ | 150 | ٥C | |
| Storage temperature range | Тѕтс | -55 to +150 | ٥C | |

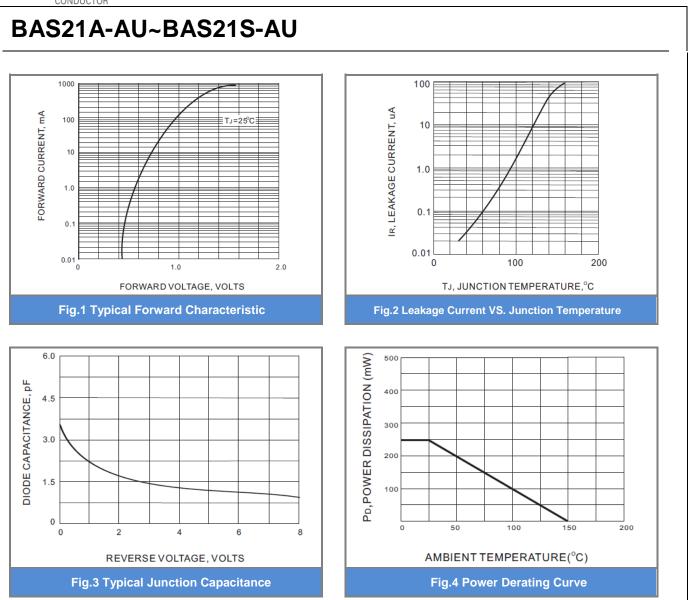
Notes : 1.Mounted on a FR-4 PCB, single-sided copper, mini pad.

- 2. Mounted on a FR-4 PCB, single-sided copper, with 100cm² copper pad area.
- 3. Reja is the sum of the junction-to-case and case-to-ambient thermal resistance where the case thermal reference is defined as the solder mounting surface of the drain pins mounted on a 1 inch FR-4 with 2oz. square pad of copper.

ELECTRICAL CHARACTERISTICS (TJ=25 °C, unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP | MAX. | UNIT |
|------------------------------|--------|----------------------|------|-----|------|------|
| Reverse breakdown voltage | V(BR) | IR=100μA | 250 | - | - | V |
| Reverse current | lr | Vr =200V | - | - | 0.1 | μΑ |
| | | Vr =200V Tj=150°C | - | - | 100 | |
| Forward voltage | VF | l⊧=1mA | - | - | 0.7 | V |
| | | IF=100mA | - | - | 1 | |
| Maximum junction capacitance | Сл | Vr=0V,f=1MHz | - | - | 5 | рF |
| Reverse recovery time TRR | - | IF = IR=30mA | - | - | 50 | ns |
| | I RR | R _L =100Ω | | | | |

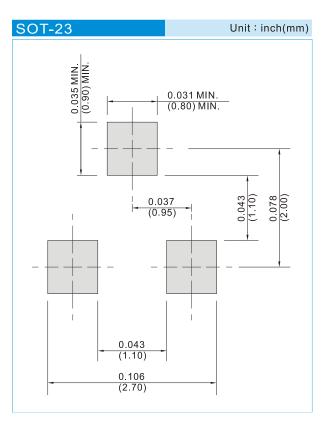






BAS21A-AU~BAS21S-AU

MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information
T/R – 12K per 13" plastic Reel
T/R – 3K per 7" plastic Reel



BAS21A-AU~BAS21S-AU

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.