

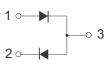
Features

- Average Rectified Output Current:I₀=215 mA
- Power Dissipation of 200mw

3 1 SOT-23

Package Marking and Ordering Information

| Product ID | Pack | Marking | Qty(PCS) |
|------------|--------|---------|----------|
| BAV199 | SOT-23 | JY | 3000 |



Maximum Ratings (Ta=25°C unless otherwise noted)

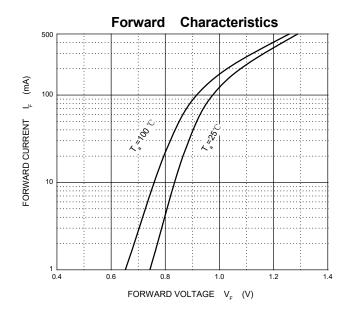
| Parameter | Symbol | Limit | Unit |
|---|------------------|----------|------|
| Non-Repetitive Peak Reverse Voltage | V_{RM} | 70 | V |
| DC Blocking Voltage | V_{R} | 70 | V |
| Forward Continuous Current | I _{FM} | 500 | mA |
| Average Rectified Output Current | lo | 215 | mA |
| Non-Repetitive Peak Forward Surge Current @t=8.3ms | IFSM | 1.0 | А |
| Power Dissipation | P_{D} | 200 | mW |
| Junction Temperature | TJ | 150 | °C |
| Storage Temperature Range | T _{STG} | -55~+150 | ℃ |

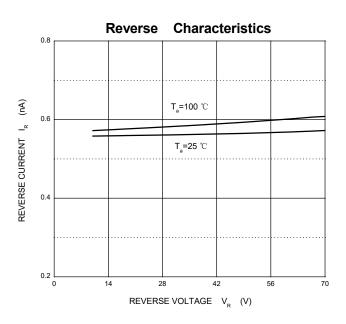
Electrical Characteristics (Ta=25°C unless otherwise specified)

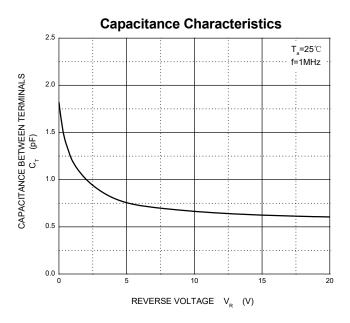
| Parameter | Symbol | Test conditions | Min | Max | Unit |
|---------------------------------|-----------------|---------------------------------------|-----|------|------|
| Reverse breakdown voltage | $V_{(BR)}$ | I _R = 100µA | 70 | | V |
| Reverse voltage leakage current | I _R | V _R =70V | | 5 | nA |
| | V _F | I _F =1mA | | 900 | mV |
| Forward voltage | | I _F =10mA | | 1000 | |
| 1 of ward voltage | | I _F =50mA | | 1100 | |
| | | I _F =150mA | | 1250 | |
| Diode capacitance | C _D | V _R =0, f=1MHz | | 2 | pF |
| Reverse recovery time | t _{rr} | I _F = I _R =10mA | | 3 | μs |

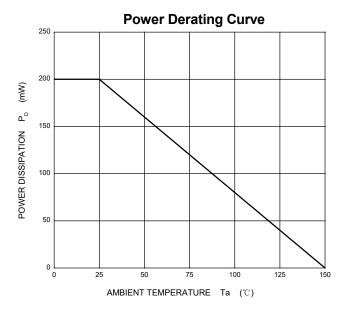


Typical Characteristics

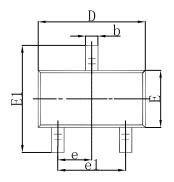


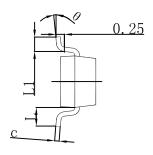


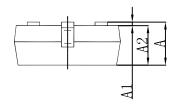




SOT-23 Package Outline Dimensions

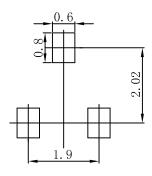






| Symbol | Dimensions In Millimeters | | Dimensions In Inches | | |
|--------|---------------------------|-------|----------------------|-------|--|
| | Min | Max | Min | Max | |
| Α | 0.900 | 1.150 | 0.035 | 0.045 | |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 | |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 | |
| b | 0.300 | 0.500 | 0.012 | 0.020 | |
| С | 0.080 | 0.150 | 0.003 | 0.006 | |
| D | 2.800 | 3.000 | 0.110 | 0.118 | |
| Е | 1.200 | 1.400 | 0.047 | 0.055 | |
| E1 | 2.250 | 2.550 | 0.089 | 0.100 | |
| е | 0.950 TYP | | 0.037 TYP | | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 | |
| L | 0.550 REF | | 0.022 REF | | |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 | |
| θ | 0° | 8° | 0° | 8° | |

SOT-23 Suggested Pad Layout



- Note: 1.Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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