MSKSEMI















ESD

TVS

TSS

MOV

GDT

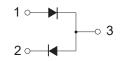
PLED

Broduct data sheet





SOT-23



FEATURES

- This Switching Diode has The Following Features:
- Low Leakage Current Applications

Marking: JY



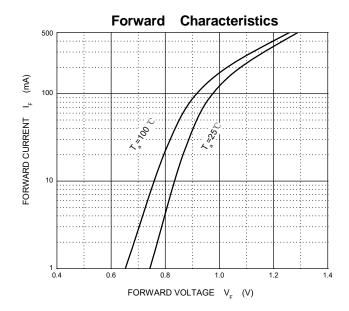
Maximum Ratings @Ta=25℃

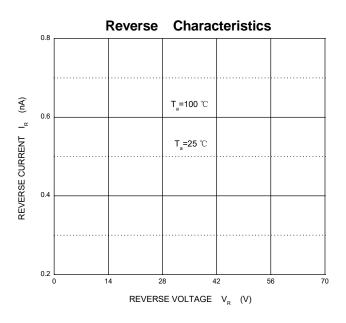
| Parameter | Symbol | Limit | Unit |
|--|------------------|----------|------|
| Non-Repetitive Peak Reverse Voltage | V_{RM} | 70 | V |
| DC Blocking Voltage | V _R | 70 | V |
| Forward Continuous Current | I _{FM} | 500 | mA |
| Average Rectified Output Current | I ₀ | 215 | mA |
| Non-Repetitive Peak Forward Surge Current @t=8.3ms | I FSM | 1.0 | А |
| Power Dissipation | P_D | 200 | mW |
| Junction Temperature | TJ | 150 | °C |
| Storage Temperature Range | T _{STG} | -55~+150 | °C |

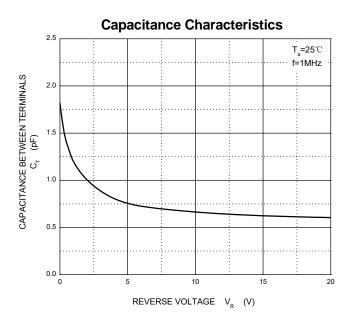
ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

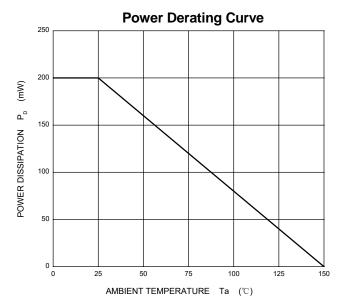
| Parameter | Symbol | Test conditions | Min | Max | Unit |
|---------------------------------|-------------------|---|-----|-----------------------------|------|
| Reverse breakdown voltage | V _(BR) | I _R = 100μA | 70 | | ٧ |
| Reverse voltage leakage current | I _R | V _R =70V | | 5 | nA |
| Forward voltage | V _F | $I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$ | | 900 1000 1100 1250 | mV |
| Diode capacitance | C _D | V _R =0, f=1MHz | | 2 | pF |
| Reverse recovery time | t _{rr} | I _F = I _R =10mA | | 3 | μs |





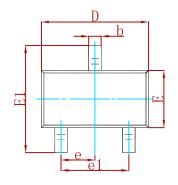


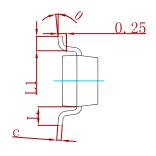


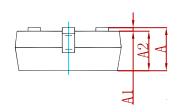




PACKAGE MECHANICAL DATA

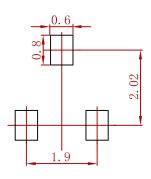






| Symbol | Dimensions | In Millimeters | Dimensions In Inches | | |
|--------|------------|----------------|----------------------|-------|--|
| Symbol | Min | Max | Min | Max | |
| Α | 0.900 | 1.150 | 0.035 | 0.045 | |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 | |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 | |
| 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 | 7 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° | |

Suggested Pad Layout



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

REEL SPECIFICATION

| P/N | PKG | QTY |
|--------|--------|------|
| BAV199 | SOT-23 | 3000 |



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