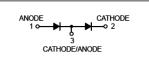
Dual Surface Mount Low Leakage Diode





Features:

- Medium Speed Current Applications
- Very Low Leakage Current
- Surface Mount Package Ideally Suited for Automatic Insertion





SOT-23

Applications:

Small signal switching

Max. Rating @ TA = 25°C unless otherwise specified

| Paramete | r | Symbol | Limits | Unit |
|---|---------------------------------|----------------------|---------------|------|
| Repetitive peak reverse voltage Working peak reverse voltage DC reverse voltage | | Vrrm Vrms Vr | 85 | V |
| RMS reverse voltage | | VR(RMS) | 60 | V |
| Peak forward surge current | @t=1.0µs @t=1.0ms @t=1.0s | Ігѕм | 4 1 0.5 | А |
| Forward continuous current | Single diode Double diode | Іғм | 160 140 | mA |
| Repetitive peak forward current | | IFRM | 500 | mA |
| Power dissipation | | PD | 250 | mW |
| Thermal resistance junction to ambient air | | Røja | 500 | °C/W |
| Operating and storage temperature range | | Т _{ј,} Тѕтс | -65 to +150 | °C |

Electrical Characteristics @ T_A = 25°C unless otherwise specified

| Parameter | Symbol | Conditions | Min. | Max. | Unit |
|---------------------------------|--------|--|------|--------------------------------|------|
| Reverse breakdown voltage | V(BR) | IR = 100μA | 85 | - | V |
| Reverse voltage leakage current | lR | Vr = 75V Vr = 75V, T _j = 150°C | - | 5 80 | nA |
| Forward voltage | VF | IF = 1mA IF = 10mA IF = 50mA IF = 150mA | - | 900 1,000 1,100 1,250 | mV |
| Junction capacitance | Сл | V _R = 0V, f = 1MHz | - | 5 | ns |
| Reverse recovery time | trr | I _F = I _R = 10mA, I _T = 0.1 × I _R , R _L = 100Ω | - | 3 | pF |

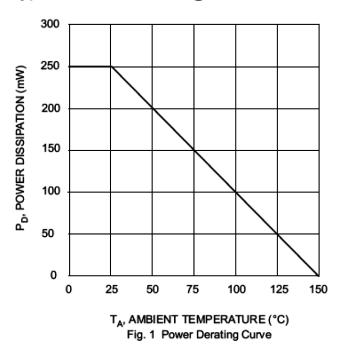
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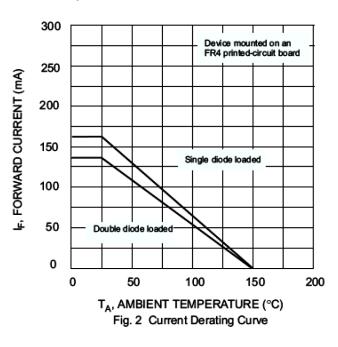


Dual Surface Mount Low Leakage Diode

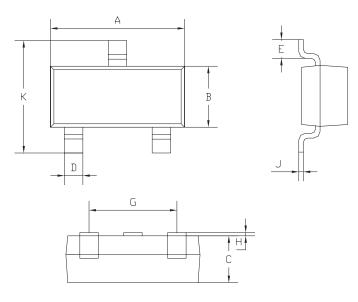
multicomp PRO

Typical Characteristics @ TA = 25°C unless otherwise specified





Plastic surface mounted package



| SOT-23 | | | |
|----------------------|------------|------|--|
| Dim | Min | Max | |
| А | 2.85 | 2.95 | |
| В | 1.25 | 1.35 | |
| С | 1 Typical | | |
| D | 0.37 | 0.43 | |
| Е | 0.35 | 0.48 | |
| G | 1.85 | 1.95 | |
| Н | 0.02 | 0.1 | |
| J | 0.1Typical | | |
| K | 2.35 | 2.45 | |
| All Dimensions in mm | | | |

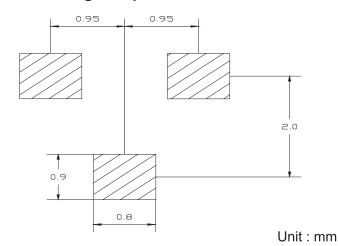
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Dual Surface Mount Low Leakage Diode



Soldering Footprint



Package Information

| Device | Package | Shipping |
|------------|---------|---------------------|
| BAV199-7-F | SOT-23 | 3,000 / Tape & Reel |

Part Number Table

| Description | Part Number | |
|--------------------------------------|-------------|--|
| Dual surface mount low leakage diode | BAV199-7-F | |

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