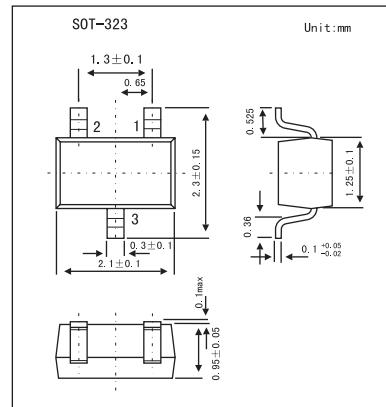
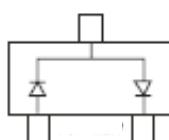


Dual Surface Mount Switching Diode

KAV99W(BAV99W)

■ Features

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance



■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|---|---------------------|-------------|------|
| Non-Repetitive Peak Reverse Voltage | V _{RM} | 100 | V |
| Peak Repetitive Reverse Voltage | V _{RRM} | | |
| Working Peak Reverse Voltage | V _{RWM} | 75 | V |
| DC Blocking Voltage | V _R | | |
| RMS Reverse Voltage | V _{R(RMS)} | 53 | V |
| Average Rectified Output Current | I _O | 150 | mA |
| Forward Continuous Current | I _{FM} | 300 | mA |
| Non-Repetitive Peak Forward Surge Current @ t = 1.0 μ s @ t = 1.0s | I _{FSM} | 2.0 1.0 | A |
| Power Dissipation | P _d | 200 | mW |
| Thermal Resistance Junction to Ambient Air | R _{θ JA} | 625 | K/W |
| Operating and Storage Temperature Range | T _{TSTG} | -65 to +150 | °C |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|---------------------------|--------------------|---|-----|-----|-------|------|
| Reverse Breakdown Voltage | V _{(BR)R} | I _F =2.5 μ A | 75 | | | V |
| Forward Voltage | V _F | I _F = 1.0mA | | | 0.715 | |
| | | I _F = 10mA | | | 0.855 | |
| | | I _F = 50mA | | | 1.0 | |
| | | I _F = 150mA | | | 1.25 | V |
| Peak Reverse Current | I _{RM} | V _R = 75V | | | 2.5 | μ A |
| | | V _R = 75V, T _j = 150°C | | | 50 | μ A |
| | | V _R = 25V, T _j = 150°C | | | 30 | μ A |
| | | V _R = 20V | | | 25 | nA |
| Junction Capacitance | C _j | V _R = 0, f = 1.0MHz | | | 2 | pF |
| Reverse Recovery Time | t _{rr} | I _F = I _R = 10mA, I _{rr} = 0.1 X I _R , R _L = 100 Ω | | | 4 | ns |

■ Marking

| | |
|---------|-----|
| Marking | KJG |
|---------|-----|