

SMD Type

Diodes

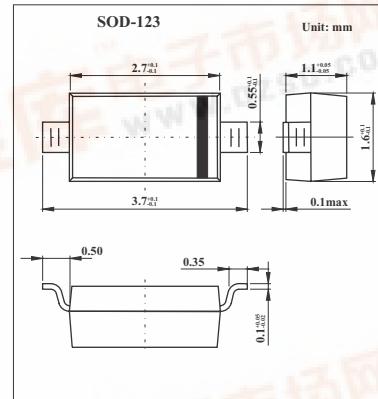
Surface Mount Fast Switching Diode

KAV16W(BAV16W)



■ Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- 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 _{RPM} | | |
| 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 | 400 | mW |
| Typical Thermal Resistance Junction to Ambient | R _{θJA} | 315 | °C/W |
| Operating and storage temperature range | T _j , T _{stg} | -65 to +150 | °C |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|---------------------------|--------------------|--|-----|-----|-------------------------------|------------------------|
| Reverse Breakdown Voltage | V _{(BR)R} | I _R = 1.0 μ A | 75 | | | V |
| Forward voltage | V _{FM} | I _F = 1.0mA I _F = 10mA I _F = 50mA I _F = 150mA | | | 0.745 0.855 1.0 1.25 | V |
| Peak Reverse current | I _{RM} | V _R = 75V V _R = 75V, TJ=150°C V _R = 25V, TJ=150°C V _R = 20V | | | 1.0 50 30 25 | μ A μ A nA nA |
| Junction Capacitance | C _J | V _R = 0, f = 1.0MHz | | | 2.0 | pF |
| Reverse Recovery Time | t _{rr} | I _F =I _R =10mA, I _{rr} =0.1xI _R , R _L =100 Ω | | | 4.0 | ns |

■ Marking

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|---------|----------|
| Marking | T6 or T4 |
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