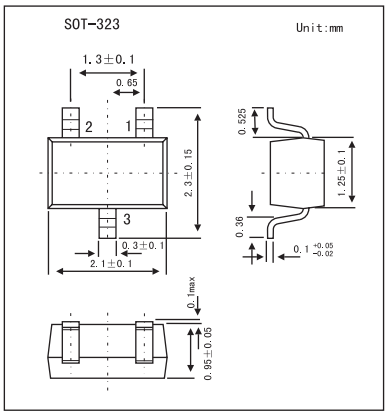
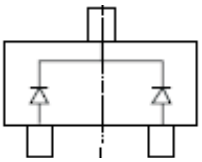
# Dual Surface Mount Switching Diode

## KAV70W(BAV70W)




## Features

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



## Absolute Maximum Ratings Ta = 25℃

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Non-Repetitive Peak Reverse Voltage | $V_{RM}$ | 100 | V |
| Peak Repetitive Reverse Voltage<br>Working Peak Reverse Voltage<br>DC Blocking Voltage | $V_{RRM}$<br>$V_{RWM}$<br>$V_R$ | 75 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 50 | V |
| Average Rectified Output Current | $I_O$ | 150 | mA |
| Forward Continuous Current | $I_{FM}$ | 300 | mA |
| Non-Repetitive Peak Forward Surge Current @ t = 1.0μs<br>@ t = 1.0s | $I_{FSM}$ | 2.0<br>1.0 | A |
| Power Dissipation | $P_d$ | 200 | mW |
| Thermal Resistance Junction to Ambient Air | $R_{\theta JA}$ | 625 | K/W |
| Operating and Storage Temperature Range | T,$T_{STG}$ | -65 to +150 | ℃ |

## Electrical Characteristics Ta = 25℃

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Reverse Breakdown Voltage | $V_{(BR)R}$ | $I_F$=10μA | 75 | | | V |
| Forward Voltage | $V_F$ | $I_F$ = 1.0mA<br>$I_F$ = 10mA<br>$I_F$ = 50mA<br>$I_F$ = 150mA | | | 0.715<br>0.855<br>1.0<br>1.25 | V |
| Peak Reverse Current | $I_{RM}$ | $V_R$ = 75V<br>$V_R$ = 75V, $T_j$ = 150℃<br>$V_R$ = 25V, $T_j$ = 150℃<br>$V_R$ = 20V | | | 2.5<br>50<br>30<br>25 | μA<br>μA<br>μA<br>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 $I_R$, $R_L$ = 100Ω | | | 4 | ns |

## Marking

| Marking | KJA |
|---|---|