

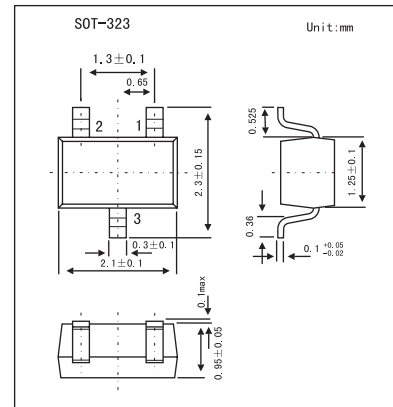
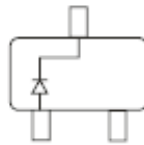
## Surface Mount Fast Switching Diode Array

## KAS19W - KAS21W

(BAS19W - BAS21W)

## ■ Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

| Parameter                                                                   | Symbol          | KAS19W | KAS20W      | KAS21W | Unit             |
|-----------------------------------------------------------------------------|-----------------|--------|-------------|--------|------------------|
| Non-Repetitive Peak Reverse Voltage                                         | $V_{RM}$        | 120    | 200         | 250    | V                |
| Peak Repetitive Reverse Voltage                                             | $V_{RRM}$       |        |             |        |                  |
| Working Peak Reverse Voltage                                                | $V_{RWM}$       | 100    | 150         | 200    | V                |
| DC Blocking Voltage                                                         | $V_R$           |        |             |        |                  |
| RMS Reverse Voltage                                                         | $V_{R(RMS)}$    | 71     | 106         | 140    | V                |
| Average Rectified Output Current                                            | $I_o$           |        | 200         |        | mA               |
| Forward Continuous Current                                                  | $I_{FM}$        |        | 400         |        | mA               |
| Non-Repetitive Peak Forward Surge Current @ $t = 1.0 \mu s$<br>@ $t = 1.0s$ | $I_{FSM}$       |        | 2.5<br>0.5  |        | A                |
| Repetitive Peak Forward Surge Current                                       | $I_{FRM}$       |        | 625         |        | mA               |
| 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 |        | $^\circ\text{C}$ |

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

| Parameter                                            | Symbol      | Testconditions                                                | Min               | Typ | Max         | Unit          |
|------------------------------------------------------|-------------|---------------------------------------------------------------|-------------------|-----|-------------|---------------|
| Reverse Breakdown Voltage KAS19W<br>KAS20W<br>KAS21W | $V_{(BR)R}$ | $I_R = 100 \mu A$                                             | 120<br>200<br>250 |     |             | V             |
| Forward Voltage                                      | $V_F$       | $I_F = 100mA$<br>$I_F = 200mA$                                |                   |     | 1.0<br>1.25 | V             |
| Reverse Current<br>@ Rated DC Blocking Voltage       | $I_R$       | $T_j = 25^\circ\text{C}$<br>$T_j = 100^\circ\text{C}$         |                   |     | 100<br>15   | nA<br>$\mu A$ |
| Junction Capacitance                                 | $C_j$       | $V_R = 0, f = 1.0MHz$                                         |                   |     | 5           | pF            |
| Reverse Recovery Time                                | $t_{rr}$    | $I_F = I_R = 30mA, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$ |                   |     | 50          | ns            |

## ■ Marking

| NO.     | KAS19W            | KAS20W     | KAS21W |
|---------|-------------------|------------|--------|
| Marking | KA8 or KT2 or KT3 | KT2 or KT3 | KT3    |