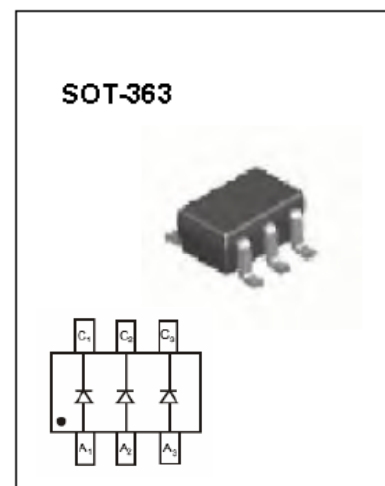
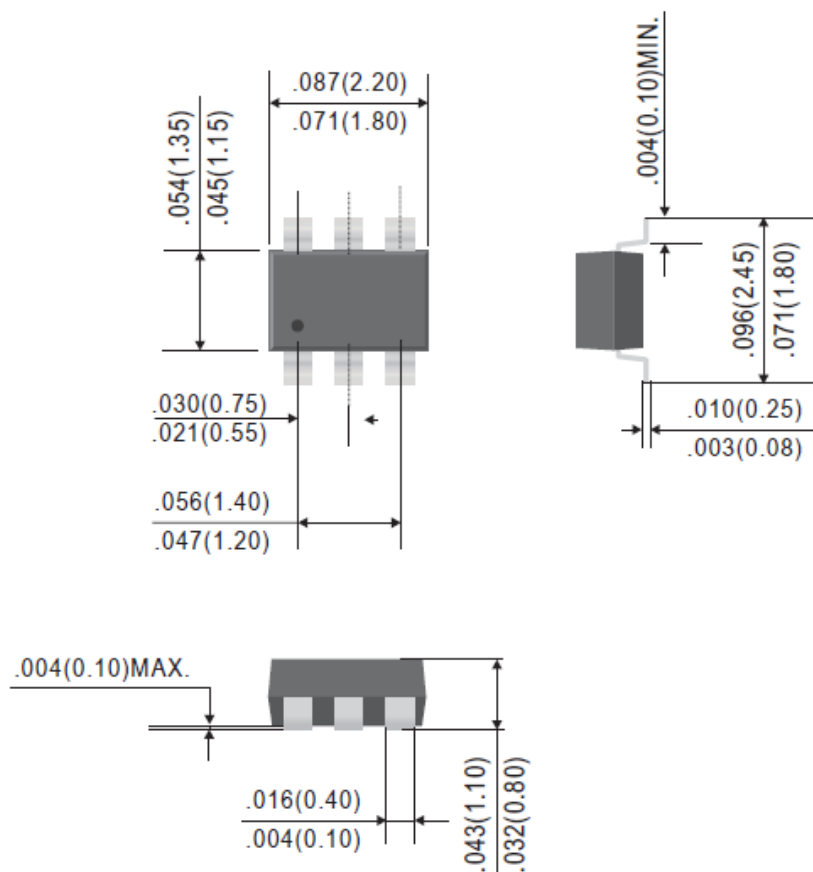




Dimensions in inches and (millimeters)

### FEATURES

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance Power Dissipation
- Pb-Free package is available
- RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1

### MARKING: KA2

| Maximum Ratings ( $T_A=25^{\circ}\text{C}$ unless otherwise noted) |                 |                      |                      |
|--------------------------------------------------------------------|-----------------|----------------------|----------------------|
| Parameter                                                          | Symbol          | Limit                | Unit                 |
| Non-Repetitive Peak Reverse Voltage                                | $V_{RM}$        | 100                  | V                    |
| Peak Repetitive Reverse Voltage                                    | $V_{RRM}$       | 75                   | V                    |
| Working Peak Reverse Voltage                                       | $V_{RWM}$       |                      |                      |
| DC Blocking Voltage                                                | $V_R$           |                      |                      |
| RMS Reverse Voltage                                                | $V_{R(RMS)}$    | 53                   | V                    |
| Forward Continuous Current                                         | $I_{FM}$        | 300                  | mA                   |
| Average Rectified Output Current                                   | $I_O$           | 150                  | mA                   |
| Non-Repetitive Peak Forward Surge Current                          |                 | @ $t = 1\mu\text{s}$ | 2                    |
|                                                                    |                 | @ $t = 1\text{s}$    | 1                    |
| Power Dissipation                                                  | $P_D$           | 200                  | mW                   |
| Thermal Resistance Junction to Ambient                             | $R_{\theta JA}$ | 625                  | $^{\circ}\text{C/W}$ |
| Junction Temperature                                               | $T_J$           | 150                  | $^{\circ}\text{C}$   |
| Storage Temperature Range                                          | $T_{STG}$       | -65~+150             | $^{\circ}\text{C}$   |

| Electrical Characteristics ( $T_A=25^{\circ}\text{C}$ unless otherwise noted) |             |                                                                           |      |       |               |
|-------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------|------|-------|---------------|
| Parameter                                                                     | Symbol      | Test conditions                                                           | Min. | Max.  | Unit          |
| Reverse Breakdown Voltage                                                     | $V_{(BR)R}$ | $I_R = 10\mu\text{A}$                                                     | 75   | —     | V             |
| Forward Voltage                                                               | $V_F$       | $I_F = 1\text{mA}$                                                        | —    | 0.715 | V             |
|                                                                               |             | $I_F = 10\text{mA}$                                                       | —    | 0.855 |               |
|                                                                               |             | $I_F = 50\text{mA}$                                                       | —    | 1     |               |
|                                                                               |             | $I_F = 150\text{mA}$                                                      | —    | 1.25  |               |
| Reverse Current                                                               | $I_R$       | $V_R = 75\text{V}$                                                        | —    | 1     | $\mu\text{A}$ |
|                                                                               |             | $V_R = 20\text{V}$                                                        | —    | 25    | nA            |
| Total capacitance                                                             | $C_T$       | $V_R = 0\text{V}$ , $f = 1\text{MHz}$                                     | —    | 2     | pF            |
| Reverse Recovery Time                                                         | $t_{rr}$    | $I_F = I_R = 10\text{mA}$ , $I_{rr} = 0.1 \times I_R$ , $R_L = 100\Omega$ | —    | 4     | ns            |

