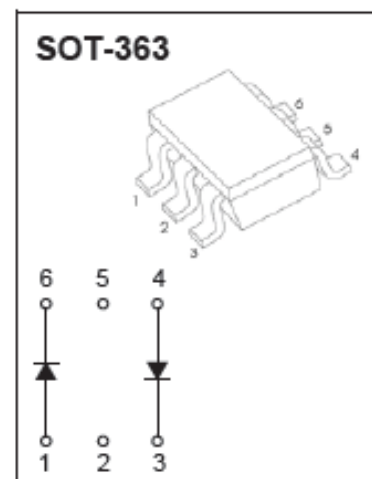
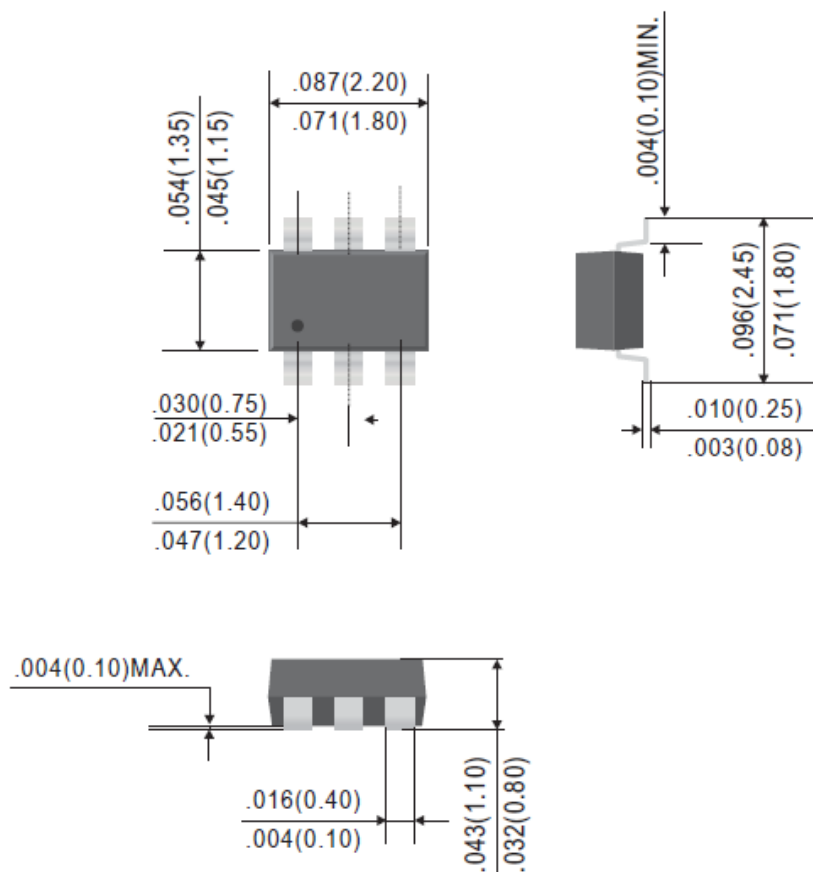




Dimensions in inches and (millimeters)

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: KA3

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 (Note 1)	I_{FM}	500	mA
Average Rectified Output Current (Note 1)	I_O	250	mA
Non-Repetitive Peak Forward Surge Current		@ $t < 1\mu\text{s}$	4
		@ $t < 1\text{s}$	1.5
Power Dissipation (Note 1)	P_D	200	mW
Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	625	$^{\circ}\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55~+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 (Note 2)	$V_{(BR)R}$	$I_R = 10\mu\text{A}$	75	—	V
Forward Voltage (Note 2)	V_F	$I_F = 5\text{mA}$	0.62	0.72	V
		$I_F = 10\text{mA}$	—	0.855	
		$I_F = 50\text{mA}$	—	1	
		$I_F = 150\text{mA}$	—	1.25	
Reverse Current (Note 2)	I_R	$V_R = 75\text{V}$	—	2.5	μA
		$V_R = 75\text{V}, T_J = 150^{\circ}\text{C}$	—	50	μA
		$V_R = 25\text{V}, T_J = 150^{\circ}\text{C}$	—	30	μA
		$V_R = 25\text{V}$	—	25	nA
Total capacitance	C_T	$V_R = 0\text{V}, f = 1\text{MHz}$	—	4	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

Notes: 1. Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch.

2. Short duration test pulse used to minimize self-heating.