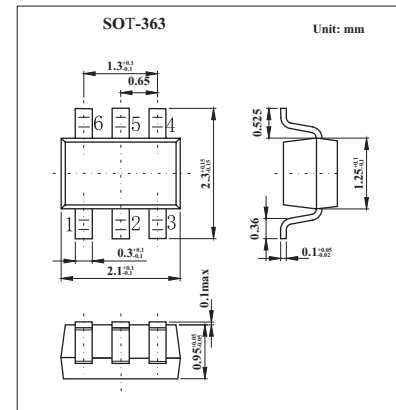
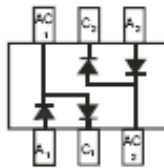


## Quad Surface Mount Low Leakage Diode

### KAV199DW(BAV199DW)

#### ■ Features

- Surface Mount Package Ideally Suited for Automatic Insertion
- Very Low Leakage Current



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

Parameter	Symbol	Rating	Unit	
Peak repetitive reverse voltage	$V_{RRM}$	85	V	
Working peak reverse voltage	$V_{RWM}$			
DC blocking voltage	$V_R$			
RMS reverse voltage	$V_{R(RMS)}$	60	V	
Forward Continuous Current	Single diode	160	mA	
	Double diode			140
Repetitive Peak Forward Current	$I_{FRM}$	500	mA	
Non-Repetitive Peak Forward Surge Current @ $t = 1.0 \mu\text{s}$	$I_{FSM}$	4.0	A	
		@ $t = 1.0\text{ms}$		1.0
		@ $t = 1.0\text{s}$		0.5
Power dissipation	$P_D$	200	mW	
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	$^\circ\text{C/W}$	
Operating and storage temperature range	$T_j, T_{stg}$	-65 to +150	$^\circ\text{C}$	

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

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100 \mu\text{A}$	85			V
Forward voltage	$V_F$	$I_F = 1.0\text{mA}$			0.90	V
		$I_F = 10\text{mA}$			1.0	
		$I_F = 50\text{mA}$			1.1	
		$I_F = 150\text{mA}$			1.25	
Leakage Current	$I_R$	$V_R = 75\text{V}$			5.0	$\mu\text{A}$
		$V_R = 75\text{V}, T_j = 150^\circ\text{C}$			80	
Junction Capacitance	$C_J$	$V_R = 0, f = 1.0\text{MHz}$		2		pF
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 10\text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			3.0	$\mu\text{s}$

#### ■ Marking

Marking	K52
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