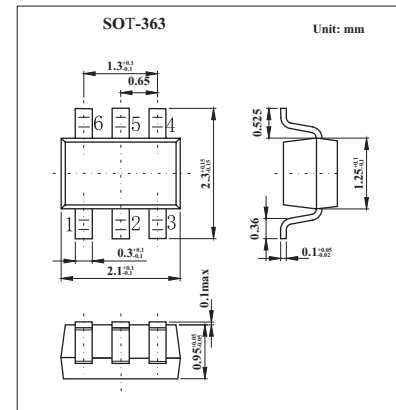
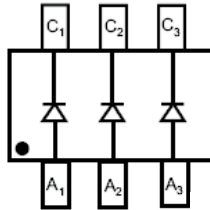


## Surface Mount Fast Switching Diode Array

### KAS16TW (BAS16TW)

#### ■ Features

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



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	100	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>		
Working Peak Reverse Voltage	V <sub>RWM</sub>	75	V
DC Blocking Voltage	V <sub>R</sub>		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	53	V
Average Rectified Output Current *	I <sub>O</sub>	150	mA
Forward Continuous Current *	I <sub>FM</sub>	300	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 μs	I <sub>FSM</sub>	2.0	A
@ t = 1.0s		1.0	
Power Dissipation *	P <sub>d</sub>	200	mW
Thermal Resistance Junction to Ambient Air*	R <sub>θJA</sub>	625	K/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150	°C

\* Valid provided that terminals are kept at ambient temperature.

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Maximum Forward Voltage	V <sub>FM</sub>	I <sub>F</sub> = 1.0mA			0.715	V
		I <sub>F</sub> = 10mA			0.855	
		I <sub>F</sub> = 50mA			1.0	
		I <sub>F</sub> = 150mA			1.25	
Maximum Peak Reverse Current	I <sub>RM</sub>	V <sub>R</sub> = 75V			1.0	μA
		V <sub>R</sub> = 75V, T <sub>J</sub> = 150°C			50	μA
		V <sub>R</sub> = 25V, T <sub>J</sub> = 150°C			30	μA
		V <sub>R</sub> = 20V			25	nA
Junction Capacitance	C <sub>j</sub>	V <sub>R</sub> = 0, f = 1.0MHz			2	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> = I <sub>R</sub> = 10mA, I <sub>rr</sub> = 0.1 X I <sub>R</sub> , R <sub>L</sub> = 100 Ω			4	ns

#### ■ Marking

Marking	KA2