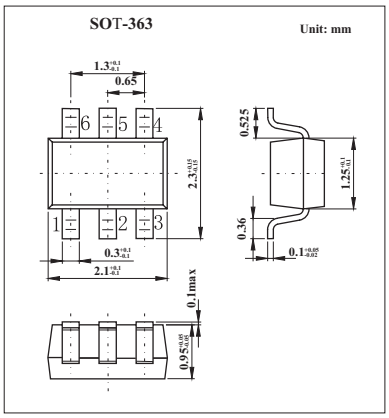
TY Semicondutor®

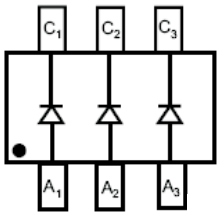
Product specification

KAS16TW（BAS16TW）



■ Features

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



■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	75	V
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Average Rectified Output Current *	I_O	150	mA
Forward Continuous Current *	I_{FM}	300	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0μs @ t = 1.0s	I_{FSM}	2.0 1.0	A
Power Dissipation *	P_d	200	mW
Thermal Resistance Junction to Ambient Air*	$R_{\theta JA}$	625	K/W
Operating and Storage Temperature Range	T,TSTG	-65 to +150	℃

* Valid provided that terminals are kept at ambient temperature.

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Maximum Forward Voltage	V_{FM}	I_F = 1.0mA I_F = 10mA I_F = 50mA I_F = 150mA			0.715 0.855 1.0 1.25	V
Maximum Peak Reverse Current	I_{RM}	V_R = 75V V_R = 75V, T_j = 150℃ V_R = 25V, T_j = 150℃ V_R = 20V			1.0 50 30 25	μA μA μA nA
Junction Capacitance	C_j	V_R = 0, f = 1.0MHz			2	pF
Reverse Recovery Time	t_{rr}	I_F = I_R = 10mA,I_{rr} = 0.1 X I_R, R_L = 100 Ω			4	ns

■ Marking

Marking	KA2