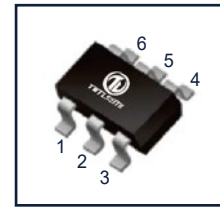
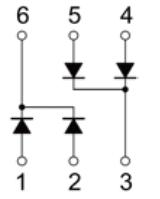


Features

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



SOT-363



Equivalent Circuit

Absolute Maximum Ratings(TA=25℃)

Symbol	Parameter	Value	Unit
V _{RRM}	Peak Repetitive Peak Reverse Voltage	75	V
V _{RWM}	Working Peak Reverse Voltage		
V _R	DC Blocking Voltage		
I _{FM}	Forward Continuous Current	300	mA
I _O	Average Rectified Output Current	150	mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current @ t = 1.0μs	2	A
	Non-repetitive Peak Forward Surge Current @ t = 1.0s	1	
P _d	Power Dissipation	200	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	625	°C/W
T _J	Operating Junction Temperature Range	150	°C
T _{stg}	Storage Temperature Range	-55~+150	°C

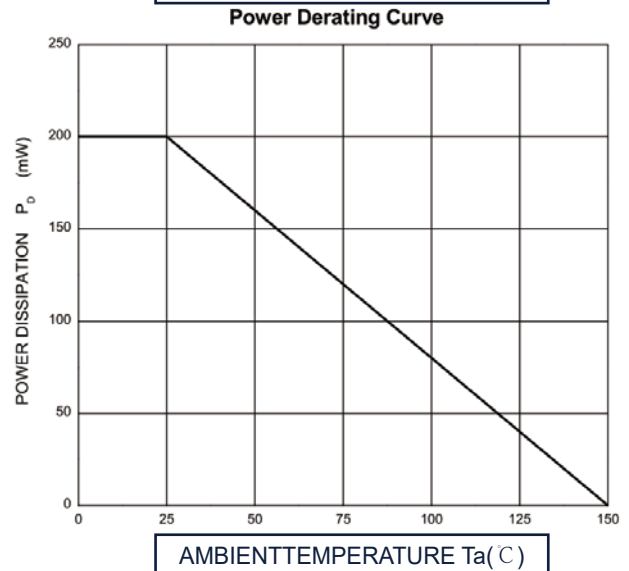
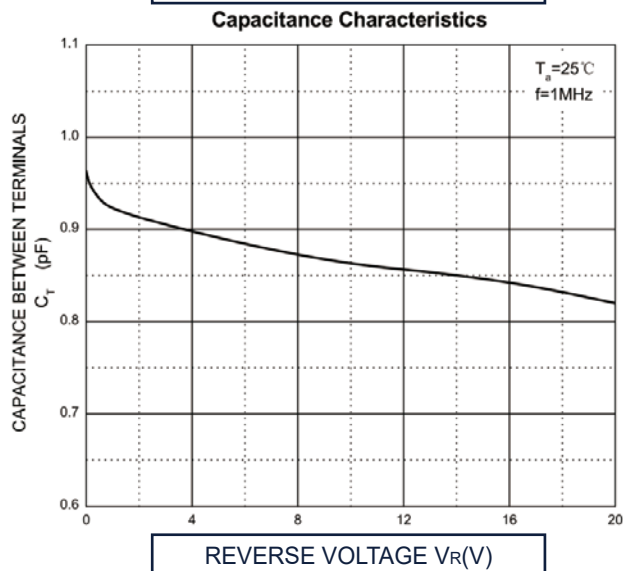
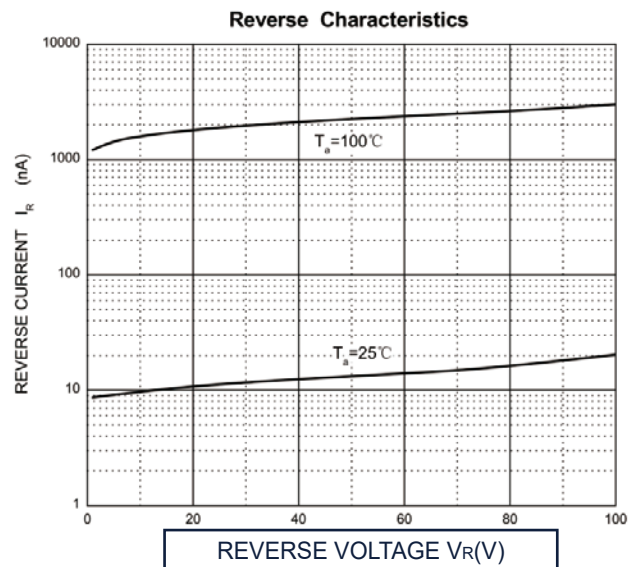
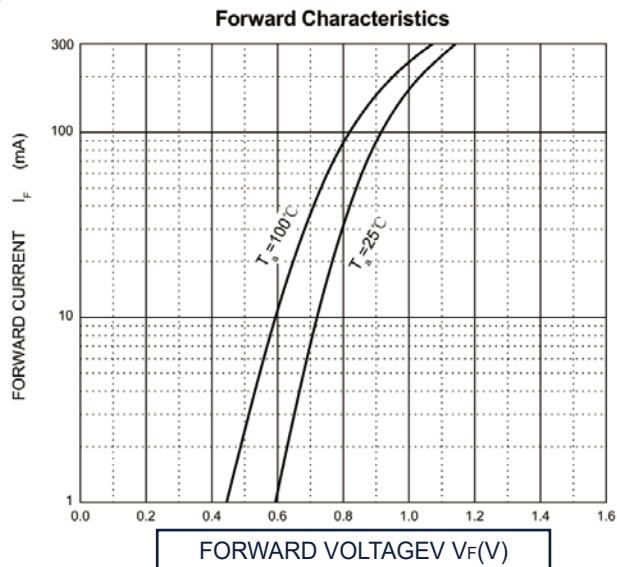
Electrical Characteristics (TA=25℃ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Max	Unit
V _(BR)	Reverse breakdown voltage	I _R =2.5μA	75		V
I _R	Reverse voltage leakage current	V _R =75V		2.5	μA
		V _R =20V		0.025	
V _F	Forward voltage	I _F =1mA		715	mV
		I _F =10mA		855	
		I _F =50mA		1000	
		I _F =150mA		1250	
C _T	Junction capacitance	V _R =0V, f=1MHz		2	pF
t _{rr}	Reverse recovery time	I _F =I _R =10mA, I _{rr} =0.1×I _R , R _L =100Ω		4	nS

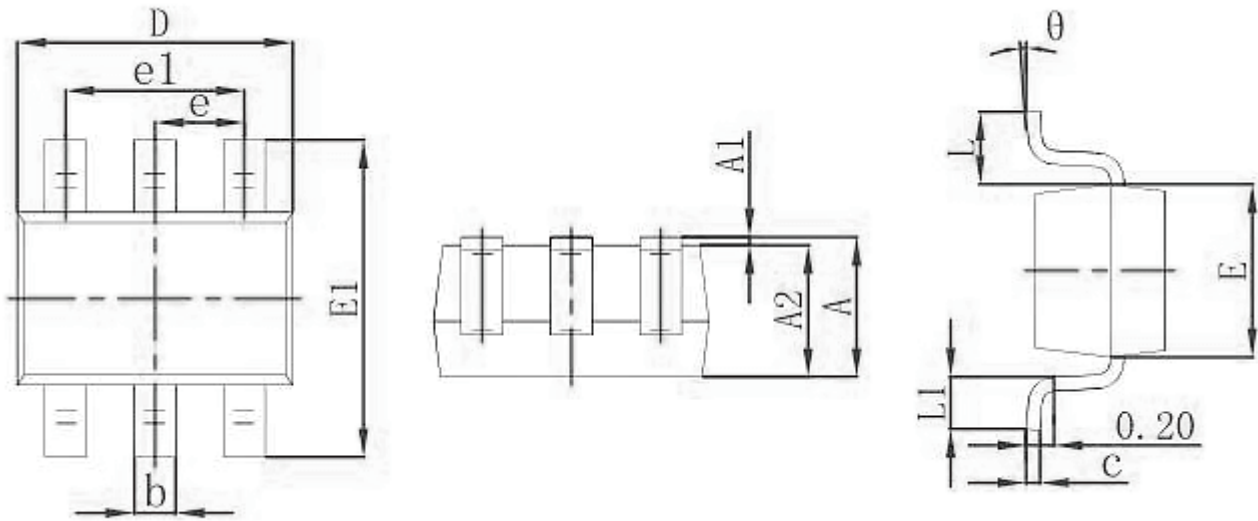
Ordering information

Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAV70DW	KJA	BAV70DW ↓ 产品名称 product name	SOT-363	3000

Typical Characteristics



SOT-363 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°