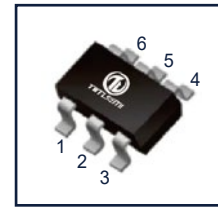
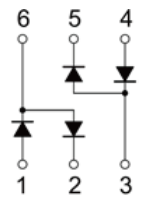


### Features

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



SOT-363



Equivalent Circuit

### Absolute Maximum Ratings(T<sub>A</sub>=25 °C)

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

### Electrical Characteristics (T<sub>A</sub>=25 °C unless otherwise specified)

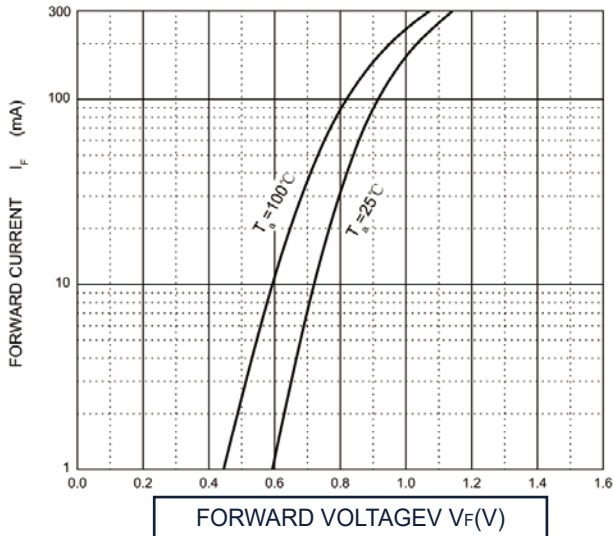
Symbol	Parameter	Test conditions	Min	Max	Unit
V <sub>(BR)</sub>	Reverse breakdown voltage	I <sub>R</sub> =2.5μA	75		V
I <sub>R</sub>	Reverse voltage leakage current	V <sub>R</sub> =75V		2.5	μA
		V <sub>R</sub> =20V		0.025	
V <sub>F</sub>	Forward voltage	I <sub>F</sub> =1mA		0.715	V
		I <sub>F</sub> =10mA		0.855	
		I <sub>F</sub> =50mA		1.000	
		I <sub>F</sub> =150mA		1.250	
C <sub>T</sub>	Junction capacitance	V <sub>R</sub> =0V, f=1MHz		2	pF
t <sub>rr</sub>	Reverse recovery time	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1×I <sub>R</sub> , R <sub>L</sub> =100Ω		4	nS

### Ordering information

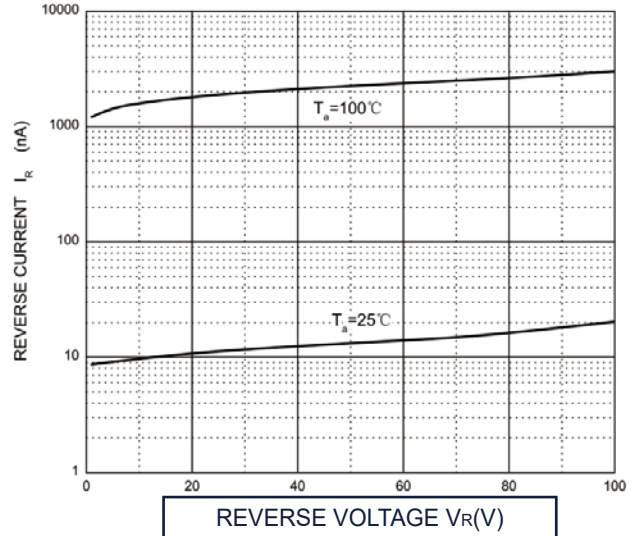
Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAV99DW	A7	<div style="border: 1px solid black; padding: 5px; display: inline-block;">                     BAV99DW                      ↓                      产品名称                      product name                 </div>	SOT-363	3000
	KJG			

## Typical Characteristics

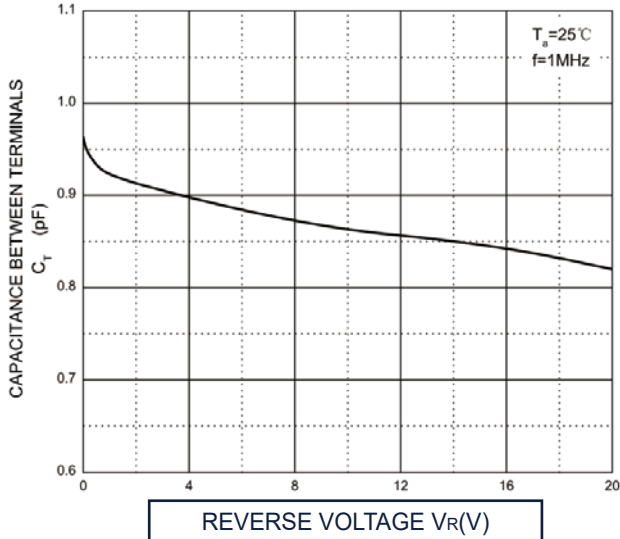
**Forward Characteristics**



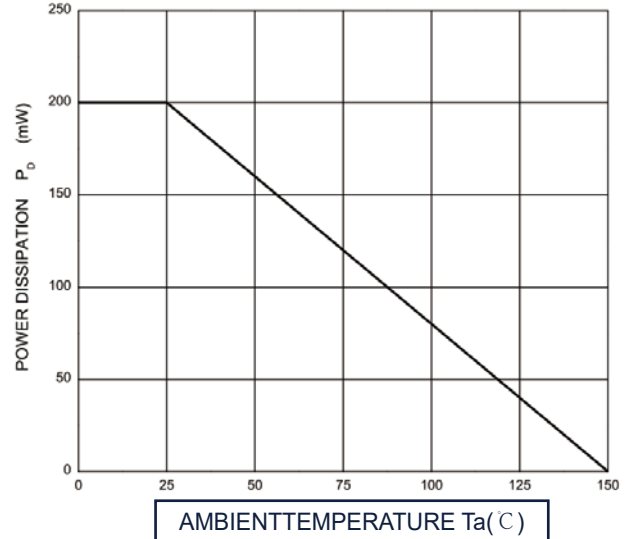
**Reverse Characteristics**



**Capacitance Characteristics**

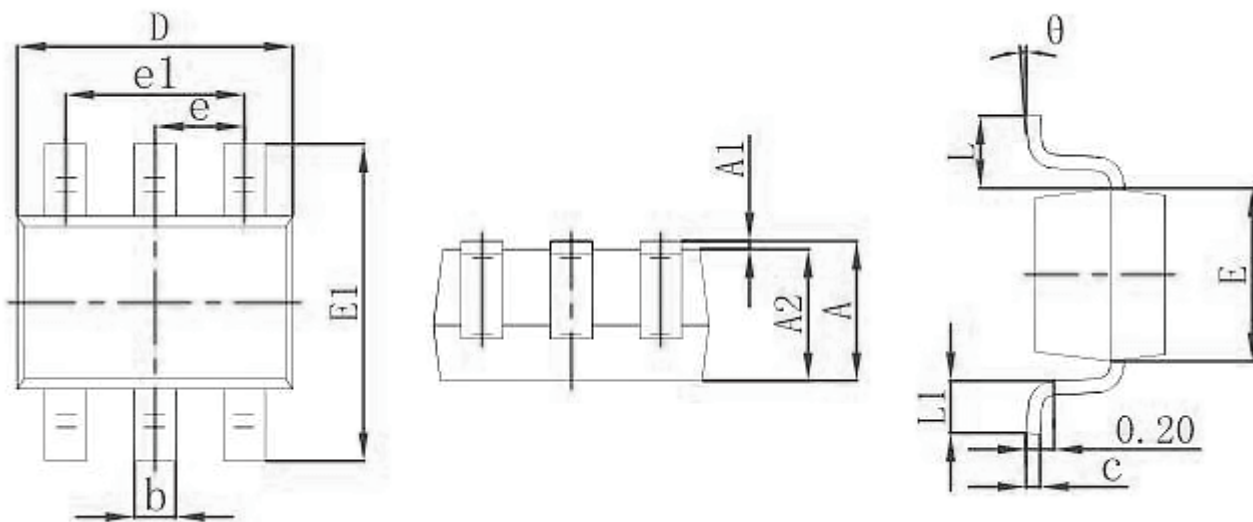


**Power Derating Curve**





## 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
$\theta$	0°	8°	0°	8°