TECH PUBLIC
台舟电子

BAW567DW

Switching Diode

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Features

- Fast Switching Speed
- Power Dissipation of 200mW
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance
- RoHS Compliant

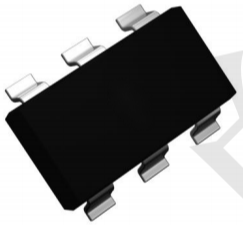
Applications

- Electronic computer
- Pulse
- Switching circuit

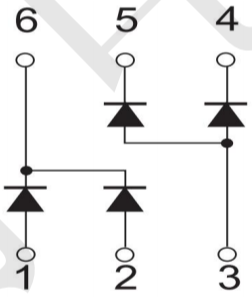
Mechanical Data

- Package: SOT-363
- Lead Finish:Matte Tin
- Case Material: “Green” Molding Compound
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020

Epuivalent circuit



SOT-363



Maximum Ratings & Electrical Characteristics (TA=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}	75	V
Reverse voltage	V_R	75	V
Average rectified output current	I_O	150	mA
Non-repetitive pak frward crrent	I_{FM}	300	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I_{FSM}	2	A
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	℃/W
Junction temperature Range	T_J	-55 ~ +150	℃
Storage Temperature	T_{STG}	-55 ~ +150	℃

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Electrical Specifications (T_A=25℃ unless otherwise noted)

Parameter	Symbol	Test Conditions	Limits		Unit
			Min	Max	
Reverse Breakdown Voltage	V_{BR}	I_R = 2.5μA	75		V
Reverse Leakage Current	I_R	V_R = 20V		25	nA
		V_R = 75V		2.5	uA
Forward Voltage	V_F	I_F = 1.0mA		0.715	V
		I_F = 10mA		0.855	V
		I_F = 50mA		1	V
		I_F = 150mA		1.25	V
Junction Capacitance	C_J	V_R = 0, f = 1.0MHz		2	pF

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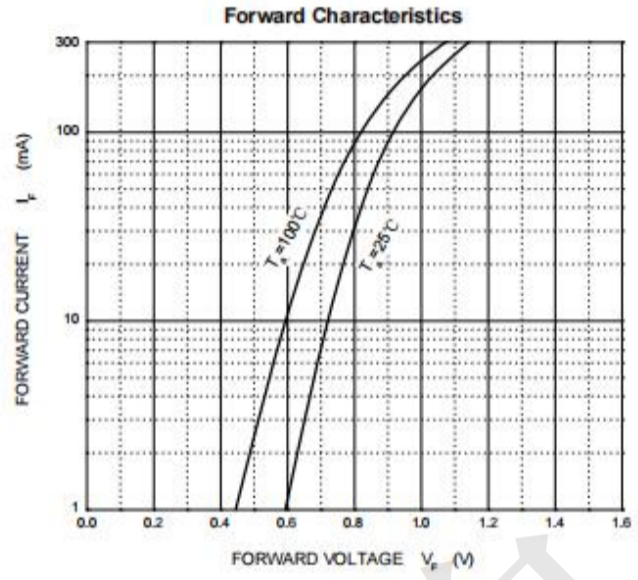
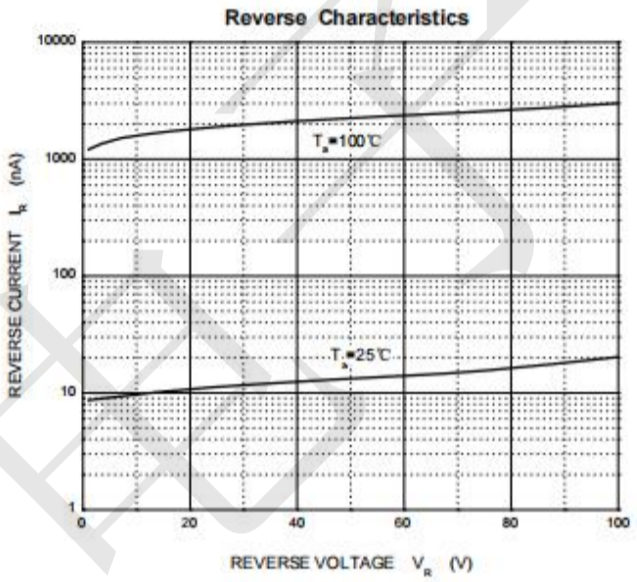
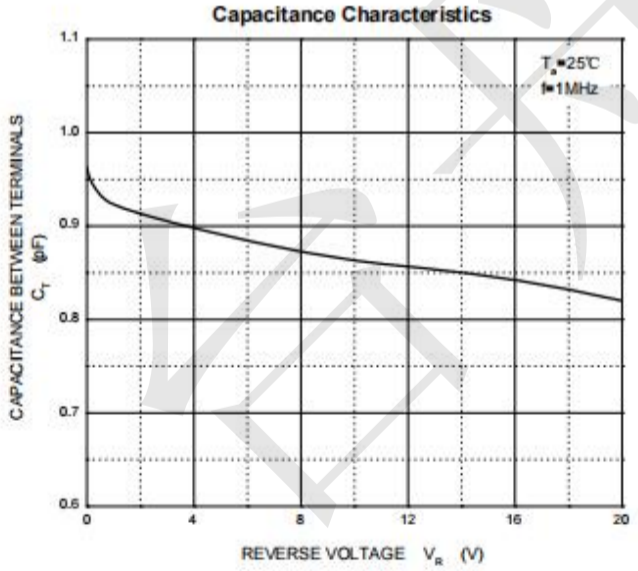
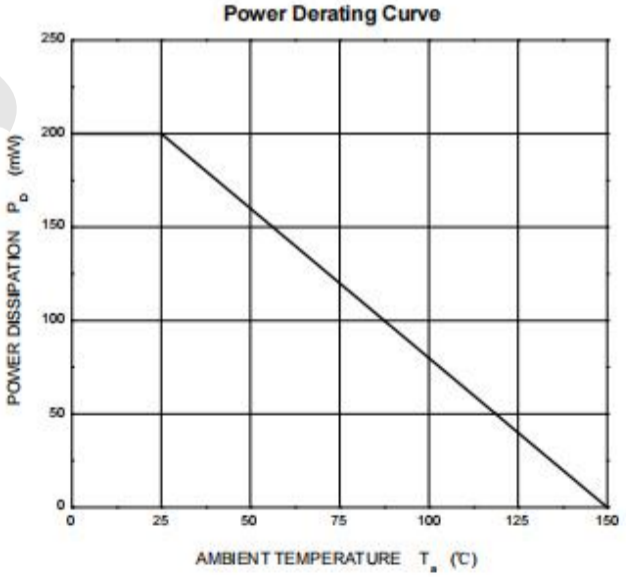
Ratings and Characteristics Curves (T_A = 25℃ unless otherwise noted)



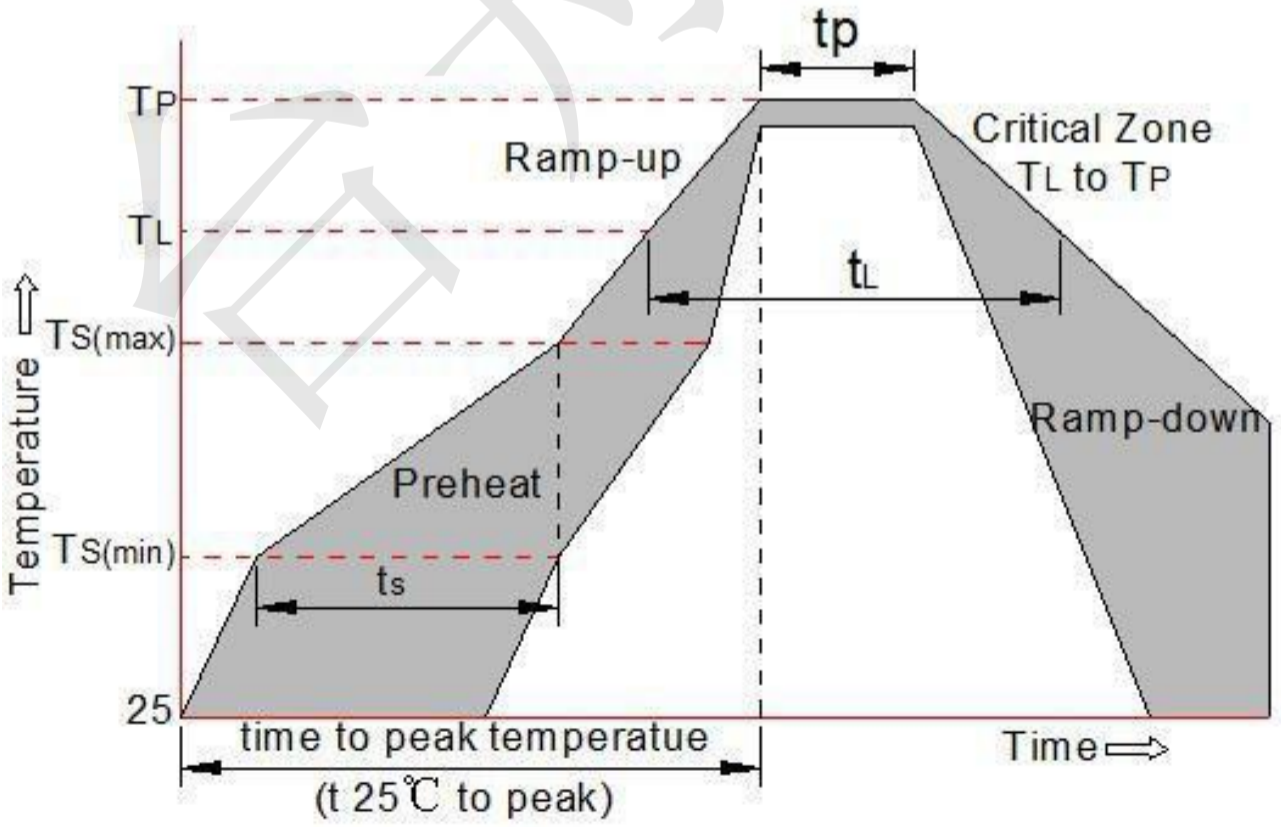






Soldering Parameters

Reflow Condition		Pb-Free assembly (see as bellow)
Pre Heat	-Temperature Min (T s(min))	+150 ℃
	-Temperature Max(T s(max))	+200 ℃
	-Time (Min to Max) (ts)	60 -180 secs.
Average ramp up rate (Liquid us Temp (T L) to peak)		3 ℃ /sec. Max
Ts(max)p T L- Ramp -up Rate		3 ℃ /sec. Max
Reflow	-Temperature(T L) (Liquid us)	+217 ℃
	-Temperature(t L)	60 -150 secs.
Peak Temp (T p)		+260(+0/ -5) ℃
Time within 5 ℃ of actual Peak Temp (tp)		30 secs. Max
Ramp -down Rate		6 ℃ /sec. Max
Time 25 ℃ to Peak Temp (T P)		8 min. Max
Do not exceed		+260 ℃



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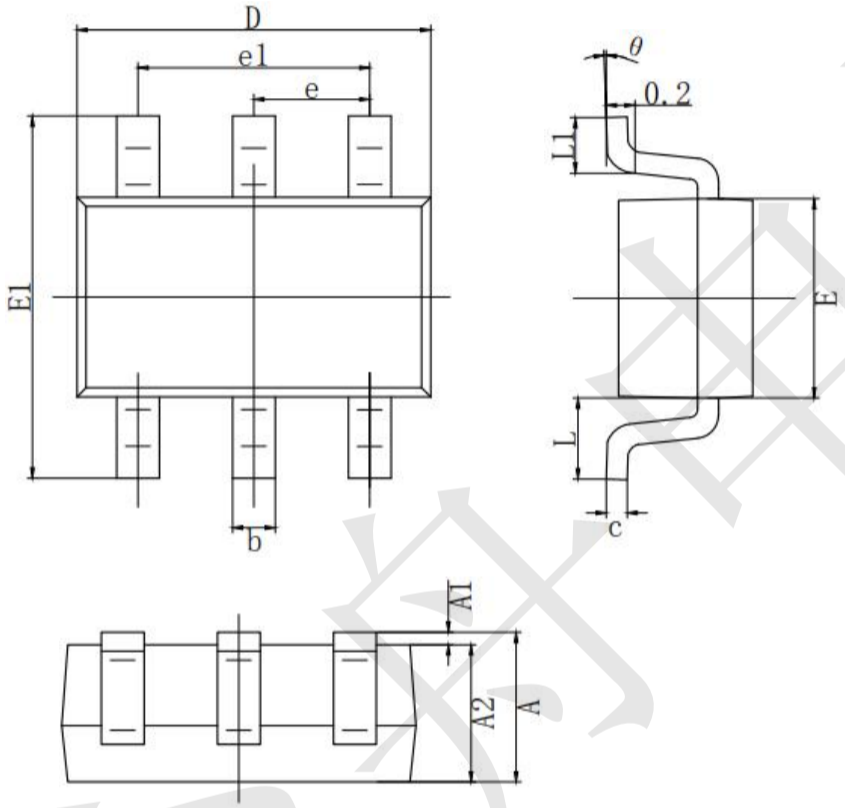
Package Outline Dimensions millimeters



SYMBOL	MILLIMETER	
	MIN	MAX
A	0.900	1.100
A1	0.000	0.100
A2	0.900	1.000
b	0.150	0.350
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
θ	0°	8°