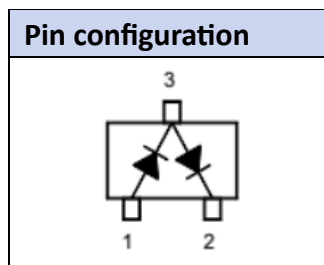


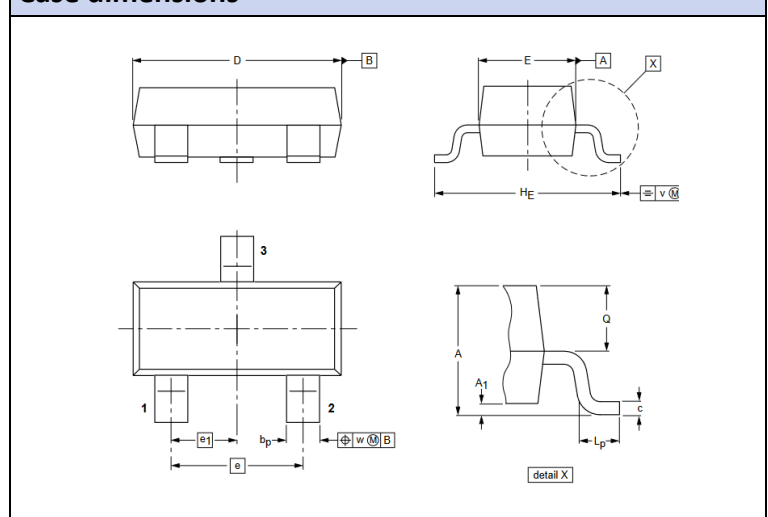
SMD Switching Diode

Primary characteristics			
Parameter	Symbol	Value	Unit
Continuous reverse voltage	V_R	75	V
Continuous Forward Current	Single diode	125	mA
	Double diode	215	
Power Dissipation	P_D	350	mW

Features

- **SOT-23** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Fast reverse recovery time

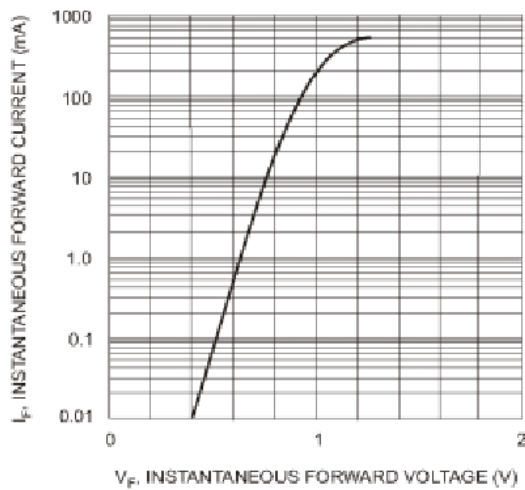
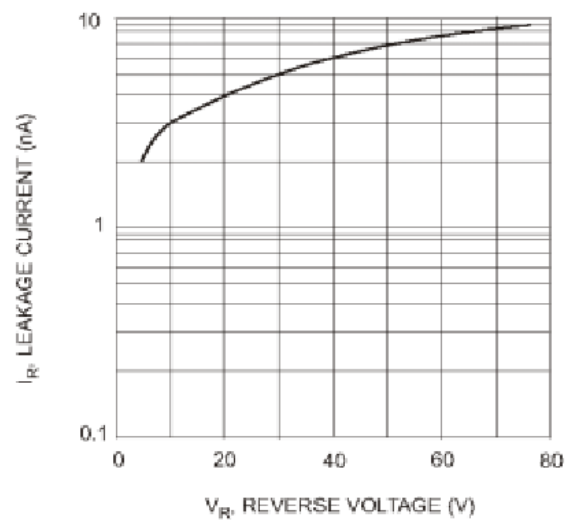
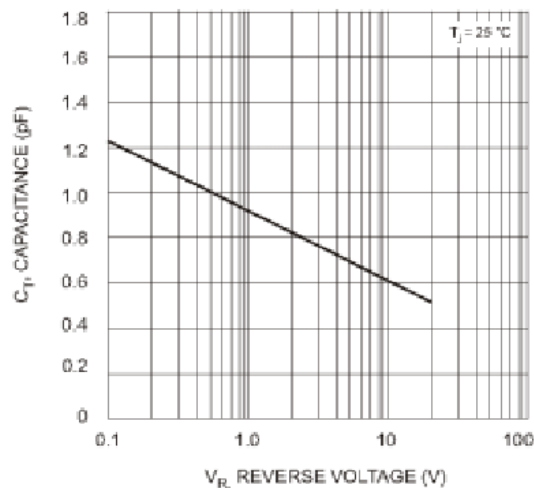


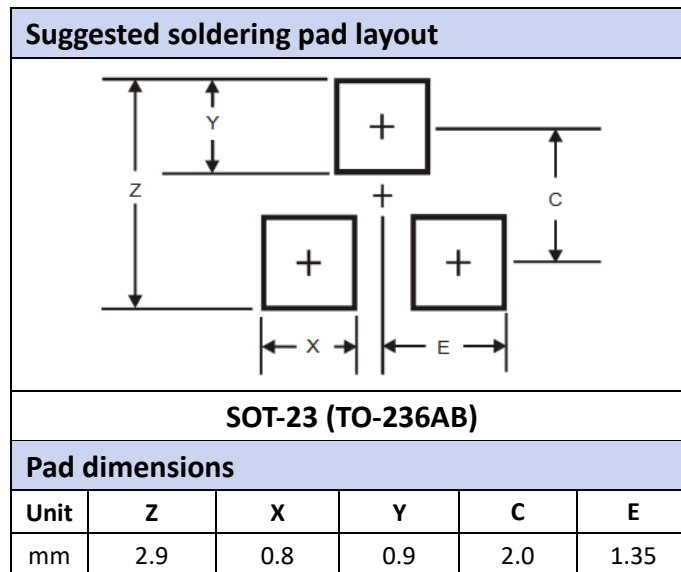
Case dimensions													
													
SOT-23 (TO-236AB)													
Unit	A	A _{1max}	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.0 ±0.1	0.1	0.43 ±0.05	0.12 ±0.03	2.9 ±0.1	1.3 ±0.1	1.9	0.95	2.3 ±0.2	0.3 ±0.15	0.5 ±0.05	0.2	0.1

Maximum ratings and electrical characteristics (T _a = 25°C)			
Characteristics	Symbol	Value	Unit
Maximum peak repetitive reverse voltage	V_{RRM}	85	V
Continuous reverse voltage	V_R	75	V
Continuous forward current	Single diode load	125	mA
	Double diode load	215	
Repetitive peak forward current	I_{FRM}	450	mA
Forward surge current	t = 1s	0.5	A
	t = 1ms	1.0	
	t = μ s	4.5	
Power dissipation	P_D	350	mW
Forward voltage @I _F	I _F = 1.0mA	0.715	V
	I _F = 10mA	0.855	
	I _F = 50mA	1.0	
	I _F = 150mA	1.25	

Maximum ratings and electrical characteristics (T_a = 25°C)

Characteristics	Symbol	Value	Unit
Reverse current @V _R	I _R	V _R = 25V	0.03
		V _R = 75V	1.0
		V _R = 25V, T _J = 150°C	30
		V _R = 75V, T _J = 150°C	50
Typical junction capacitance	C _J	V _R = 4.0V, f = 1.0MHz	1.5
Maximum reverse recovery time	T _{rr}		4.0
Junction and storage temperature range	T _J , T _{STG}		-65 ~ 150

Forward characteristics

Typical leakage current vs. reverse voltage

Typical total capacitance vs. reverse voltage




Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
BAV99	SOT-23	10 000 pcs / reel	---

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