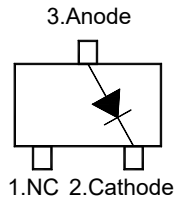


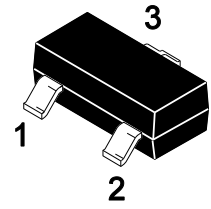
Features

- Fast Switching Speed
- For surface mount applications
- Ideal for automated placement

Equivalent Circuit



SOT-23



1.NC 2.Cathode 3.Anode

Marking Code :A6

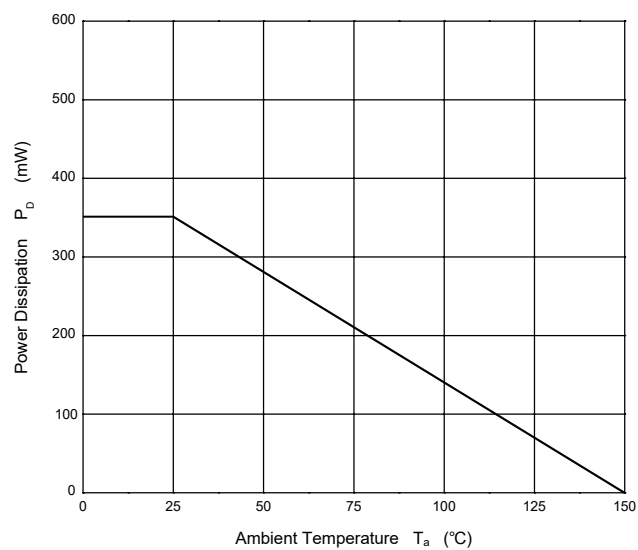
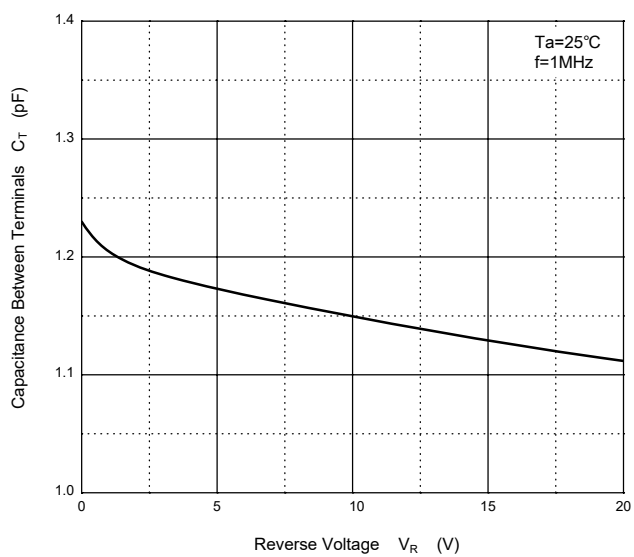
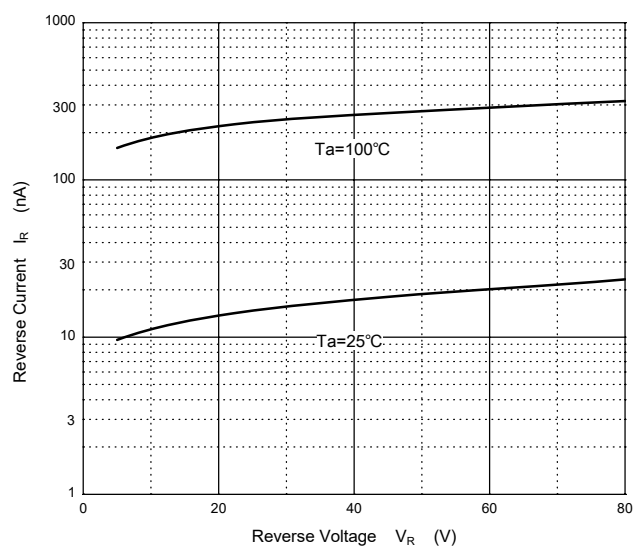
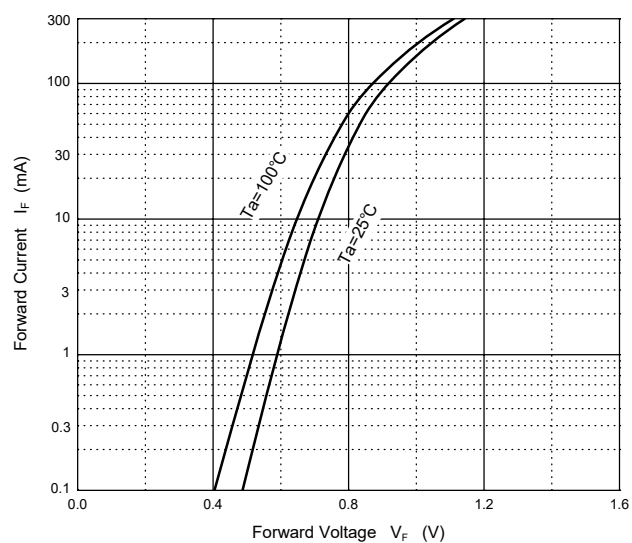
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	70	V
Reverse Voltage	V_R	70	V
Continuous forward current	I_F	100	mA
Peak Forward Surge Current at $t = 8.3\text{ms}$	I_{FSM}	2	A
Maximum Power Dissipation	P_D	350	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^\circ\text{C}$

Electrical Characteristics ($T_A=25^\circ\text{C}$)

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1\text{ mA}$ at $I_F = 10\text{ mA}$ at $I_F = 50\text{ mA}$ at $I_F = 150\text{ mA}$	V_F	0.715 0.855 1 1.25	V
Reverse Current at $V_R = 70\text{ V}$	I_R	0.03	μA
Typical Junction Capacitance at $V_R = 4\text{ V}$, $f = 1\text{ MHz}$	C_j	1.5	pF
Maximum Reverse Recovery Time	T_{rr}	4	μS

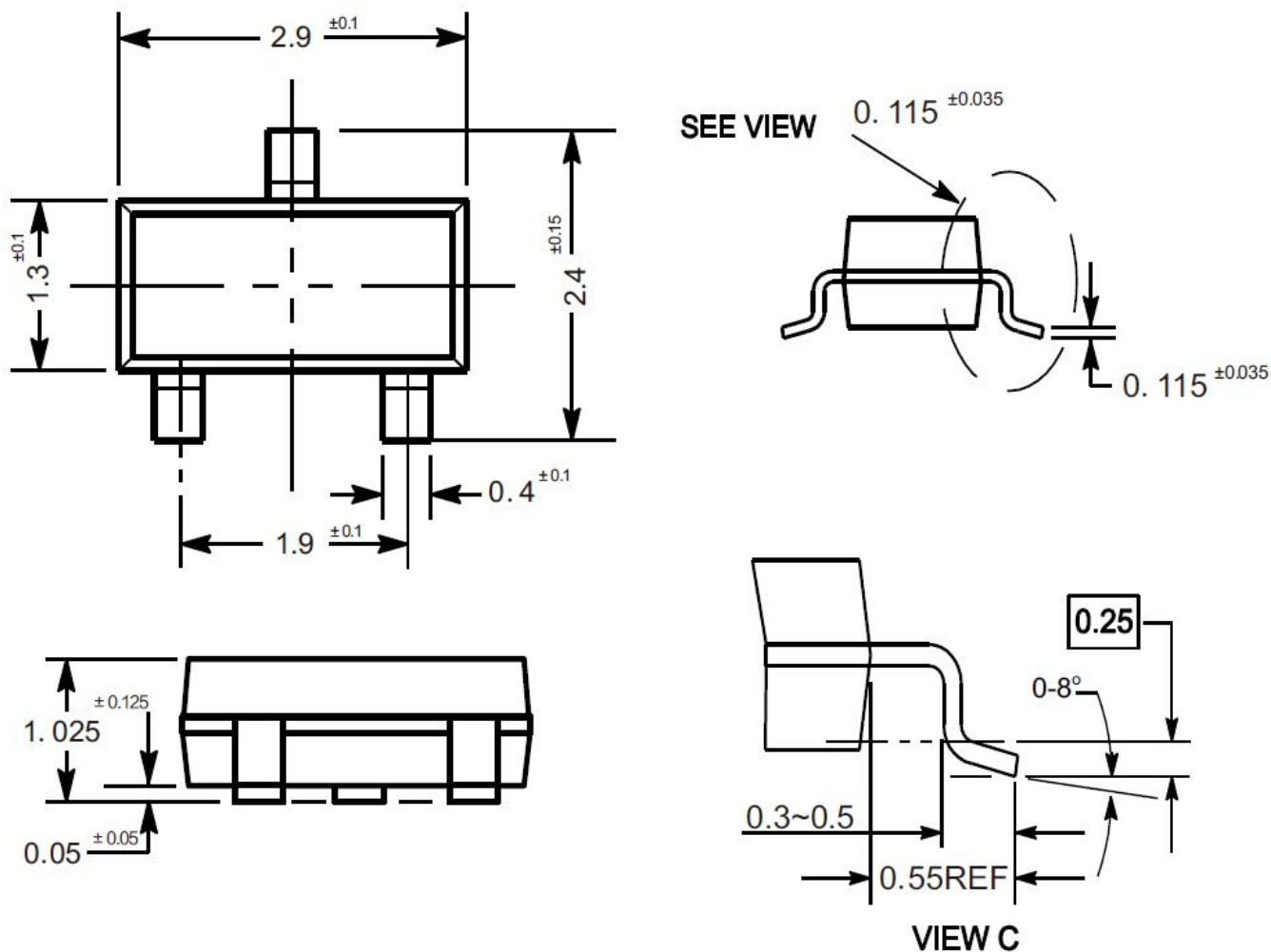
Typical Characteristic Curves



Package Outline

SOT-23

Dimensions in mm



Ordering Information

Device	Package	Shipping
BAL99	SOT-23	3,000PCS/Reel&7inches