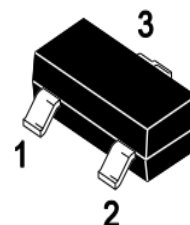


Silicon Epitaxial Planar Switching Diode

Features

- High voltage
- Small package
- Small capacitance

SOT-23



1.Anode 2.NC 3.Cathode

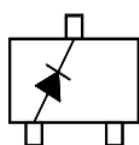
Marking Code :

BAS19 : FC

BAS20 : GC

Equivalent Circuit

3.Cathode



1.Anode 2.NC

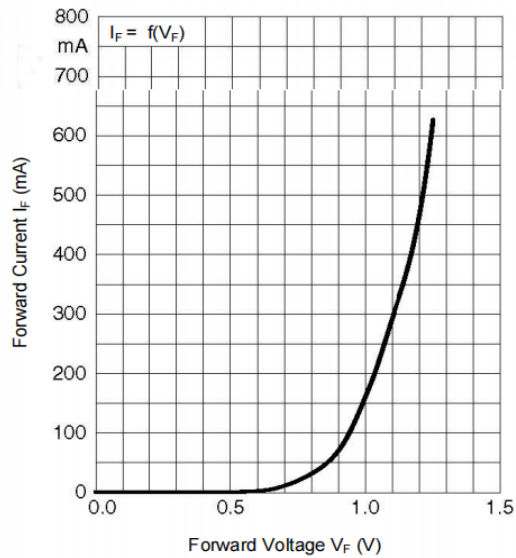
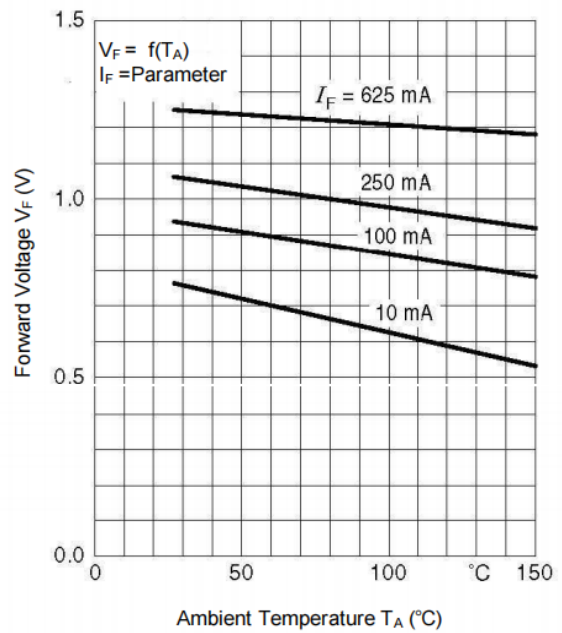
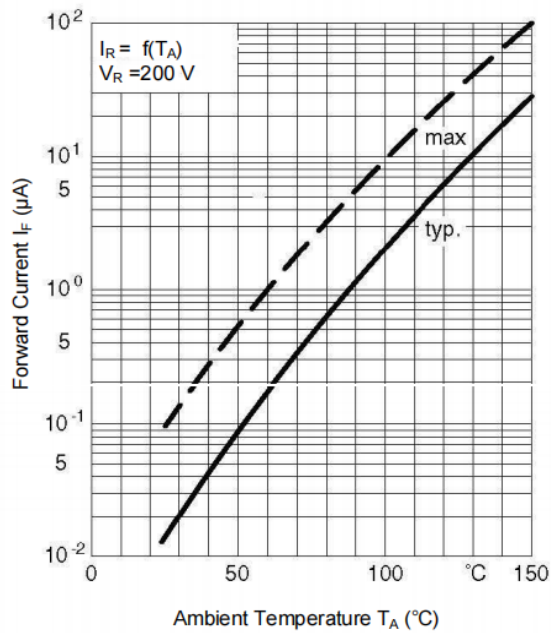
Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_{RRM}	120 200	V
Continuous Forward Current	$I_{F(AV)}$	200	mA
Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	0.5 2.5	A
		at t = 1 s at t = 1 μ s	
Power Dissipation	P_D	350	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	357	$^{\circ}\text{C/W}$
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics (T_A=25°C)

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 100 mA at I _F = 200 mA	V _F	--	1 1.25	V
Reverse Breakdown Voltage at I _R = 100 μA at I _R = 100 μA	V _R	120 200	--	V
Reverse Current at V _R = 100 V at V _R = 150 V at V _R = 100 V, at T _J = 150 °C at V _R = 150 V, at T _J = 150 °C	I _R	--	0.1 0.1 100 100	μA
Typical Junction Capacitance at V _R = 0 V, f = 1 MHz	C _J	--	5	pF
Maximum Reverse Recovery Time at I _F = I _R = 30 mA, I _{R(REC)} = 3 mA, R _L = 100 Ω	T _{rr}	--	50	nS

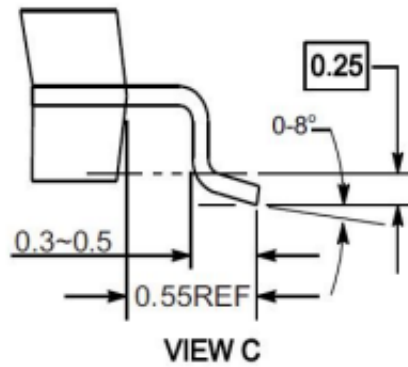
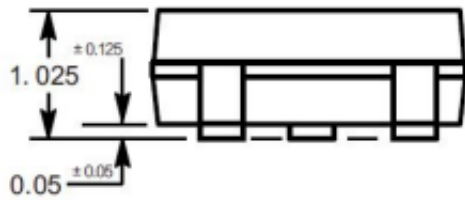
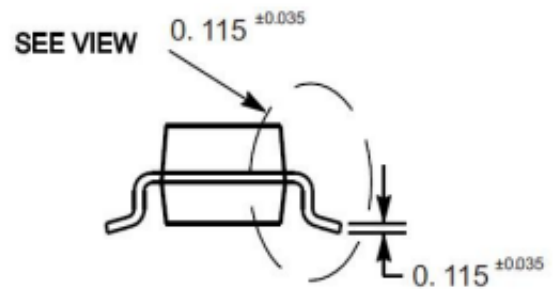
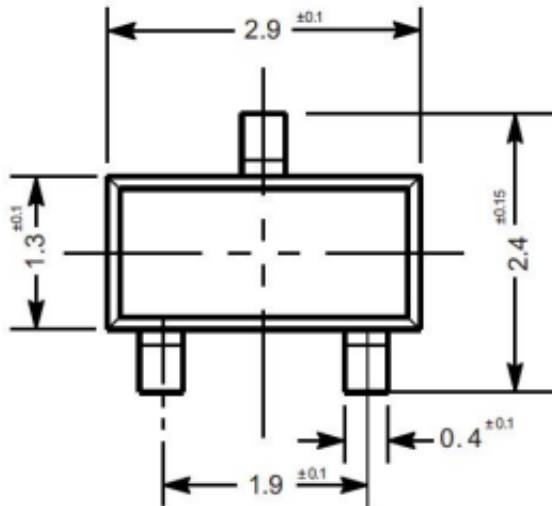
Typical Characteristic Curves



Package Outline

SOT-23

Dimensions in mm



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