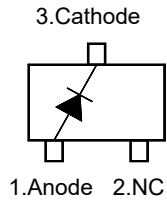


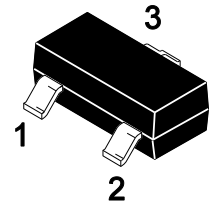
Features

- High voltage
- Small package
- Small capacitance

Equivalent Circuit



SOT-23



1.Anode 2.NC 3.Cathode

Marking Code :

BAS19 : FC

BAS20 : GC

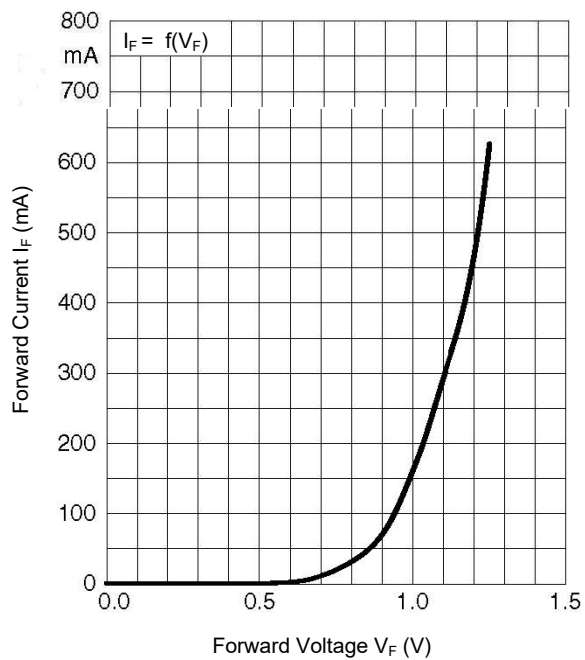
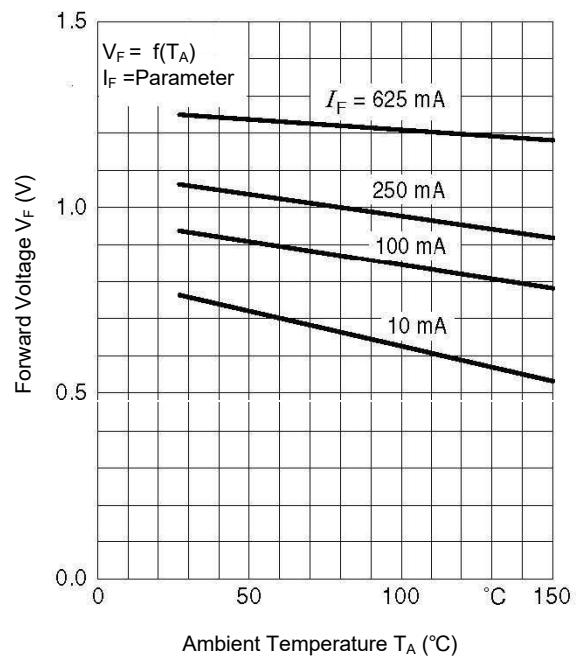
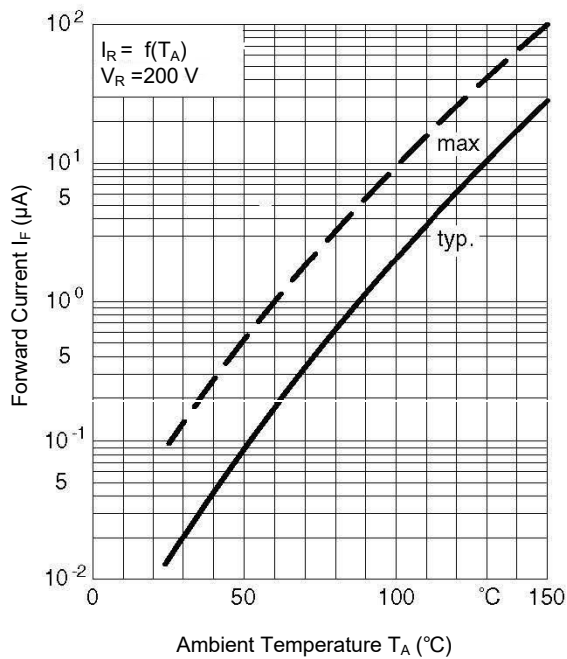
Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	BAS19 BAS20 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	at $t = 1 \text{ s}$ at $t = 1 \mu\text{s}$ I_{FSM}	0.5 2.5	A
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	BAS19 BAS20	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	BAS19 BAS20 BAS19 BAS20	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

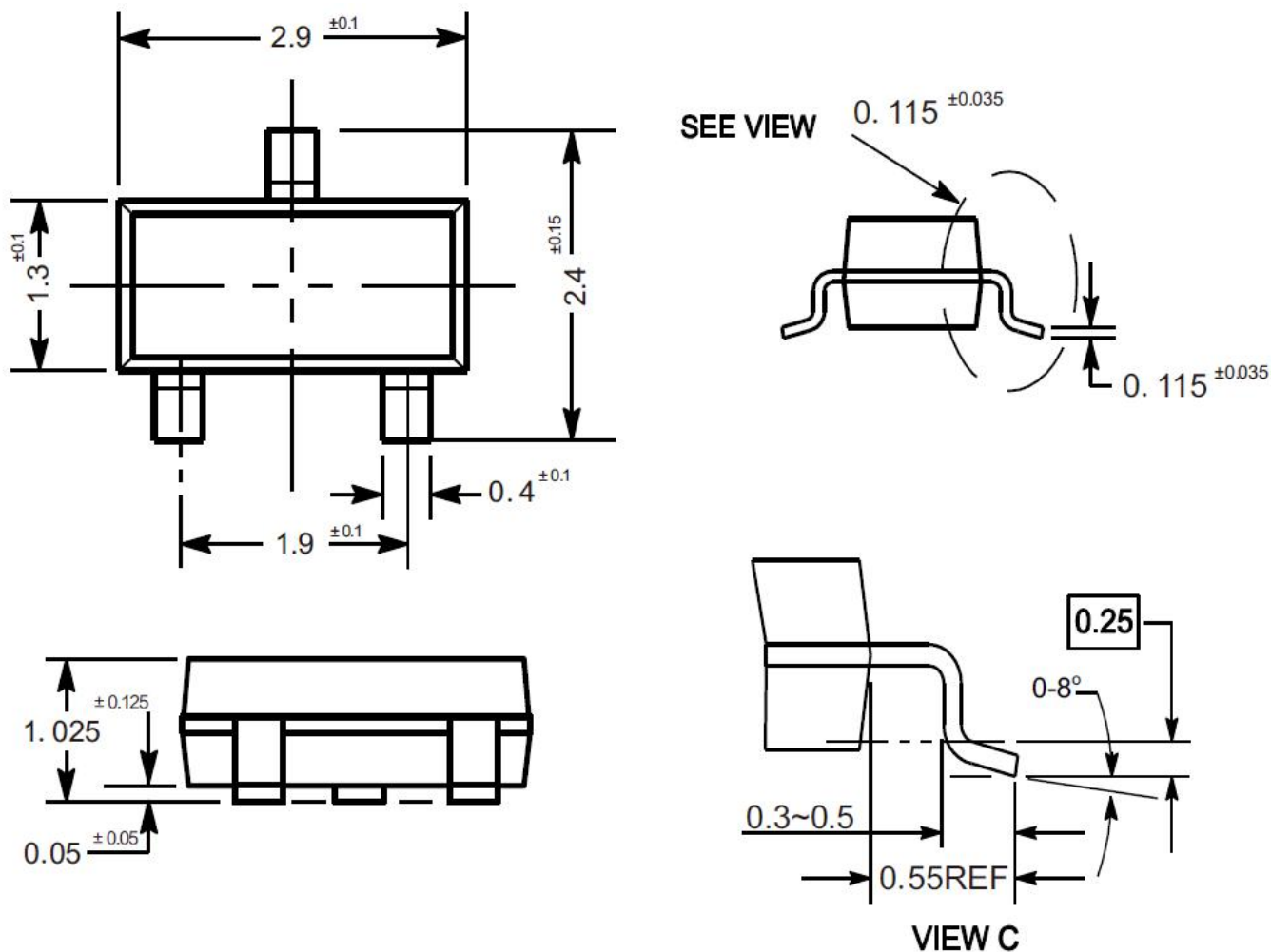
Typical Characteristic Curves



Package Outline

SOT-23

Dimensions in mm



Ordering Information

Device	Package	Shipping
BAS19~BAS20	SOT-23	3,000PCS/Reel&7inches