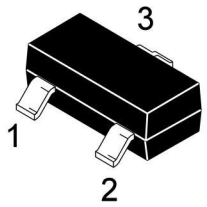
BAS70/-04/-05/-06
Schottky Barrier Rectifiers

Features

- Low turn-on voltage
- Fast switching

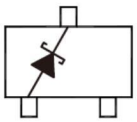
SOT-23



Equivalent Circuit

BAS70

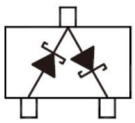
3.Cathode



1.Anode 2.NC

BAS70-04

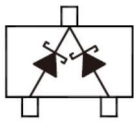
3.Cathode1、Anode2



1.Anode1 2.Cathode2

BAS70-05

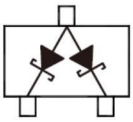
3.Cathode1、Cathode2



1.Anode1 2.Anode2

BAS70-06

3.Anode1、Anode2



1.Cathode1 2.Cathode2

Marking Code :

BAS70 : B70
BAS70-04 : B74
BAS70-05 : B75
BAS70-06 : B76

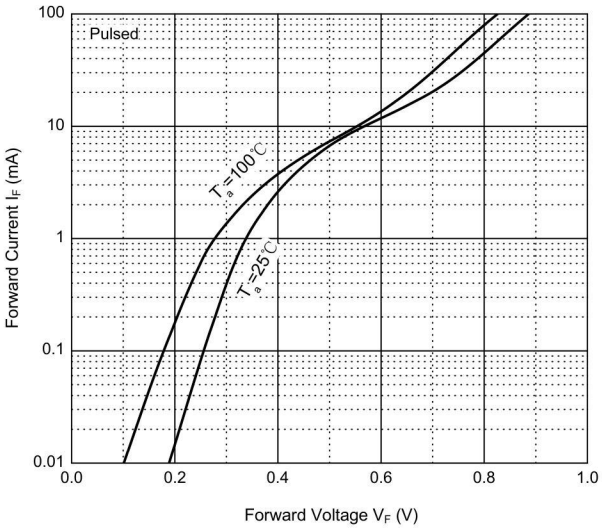
Absolute Maximum Ratings (T_A=25℃)

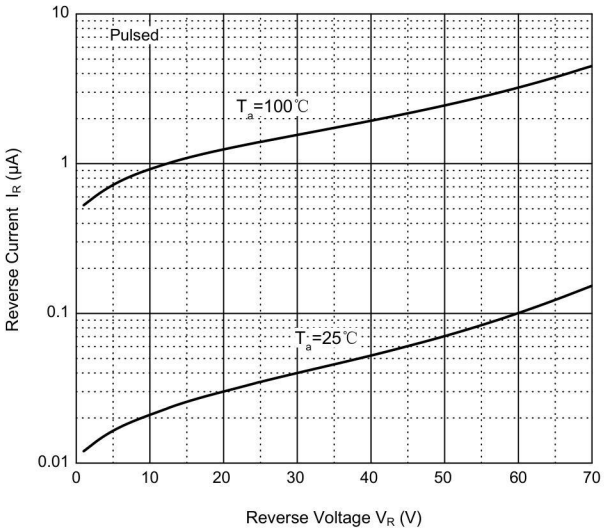
Parameter	Symbols	Value	Unit
Maximum DC Blocking Voltage	V_R	70	V
Forward Continuous Current	I_F	70	mA
Non-Repetitive Peak Forward Surge Current at 8.3ms	I_{FSM}	100	mA
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	°C/W
Junction Temperature	T_J	125	°C
Storage Temperature Range	T_{STG}	-55 to +125	°C

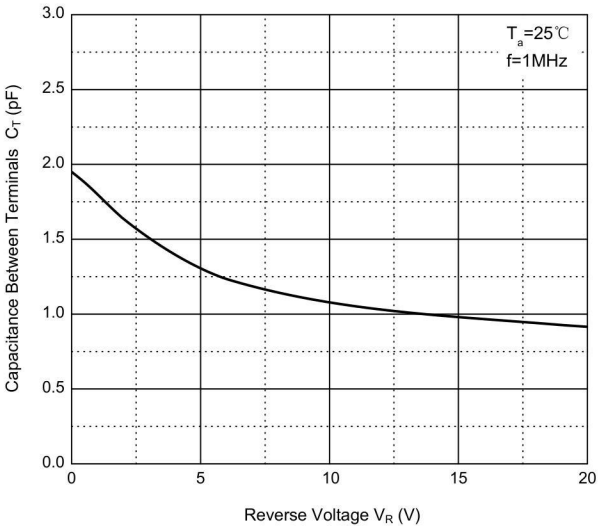
Electrical Characteristics (T_A=25℃)

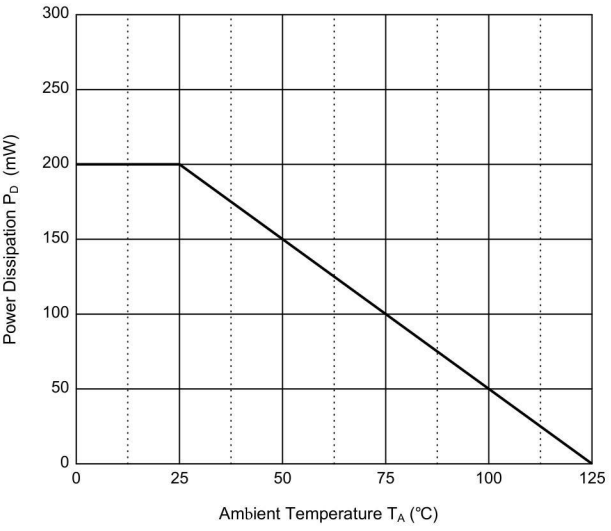
Parameter	Symbols	Min.	Max.	Unit
Forward Voltage at I_F = 1 mA at I_F = 15 mA	V_F	 -- --	 0.41 1	V
Reverse Current at V_R = 50 V	I_R	--	0.1	μA
Breakdown Voltage at I_R =10 μA	$V_{R(BR)}$	70	--	V
Total Capacitance at V_R = 1 V, f = 1 MHz	C_T	--	2	pF
Reverse Recovery Time at I_F = I_R = 10 mA, I_{rr} = 0.1x I_R, R_L = 100 Ω	T_{rr}	--	5	ns

Typical Characteristic Curves





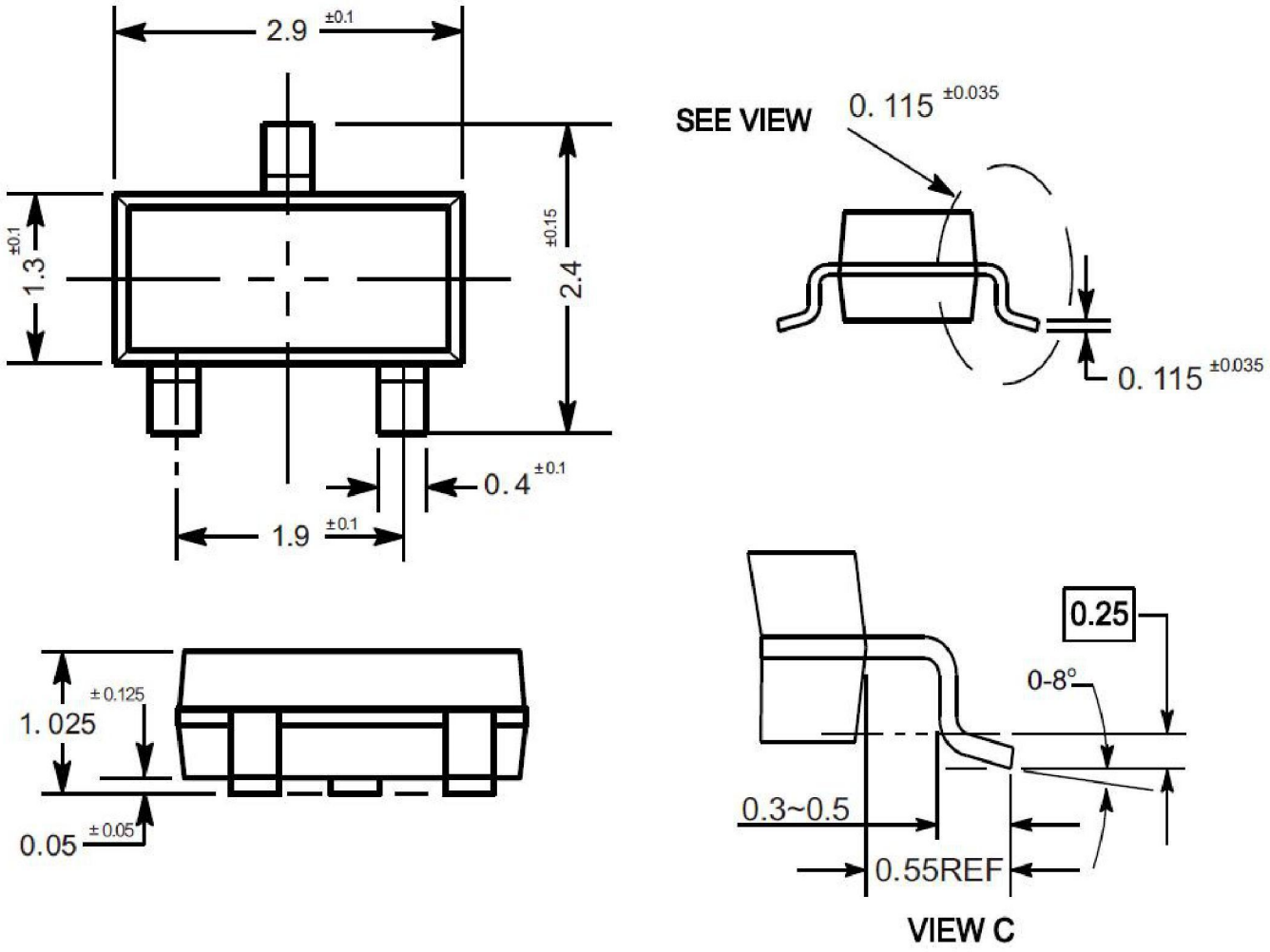




Package Outline

SOT-23

Dimensions in mm



Ordering Information

Device	Package	Shipping
BAS70/-04/-05/-06	SOT-23	3,000PCS/Reel&7inches