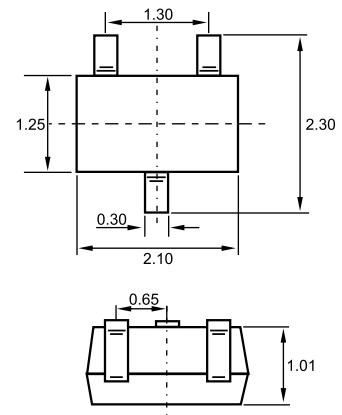


### SOT-323



Dimensions in inches and (millimeters)

### Features

- ◇ Small surface mounting type.
- ◇ High speed.
- ◇ High reliability with high surge current handing capability.

### Applications

- ◇ For general purpose switching applications.

### Ordering Information

Type No.	Marking	Package Code
1SS370	F5	SOT-323

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	$V_{RM}$	250	V
Diode reverse voltage	$V_R$	200	V
Forward peak Current(max.)	$I_{FM}$	300	mA
Average forward output Current	$I_O$	100	mA
Forward Surge Current (10ms)	$I_{FSM}$	2	A
Power Dissipation	$P_d$	100	mW
Junction temperature	$T_j$	125	°C
Storage temperature range	$T_{stg}$	-55-+125	°C

### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse current	$I_R$	$V_R=50V$ $V_R=200V$		0.1 1	$\mu A$
Forward voltage	$V_F$	$I_F=10mA$ $I_F=100mA$		1 1.2	V
Diode capacitance	$C_D$	$V_R=0V$ $f=1MHz$		3.0	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10mA$ $V_R=6V$ $I_{rr}=I_R*0.1$		60	nS



### Typical Characteristics

