

Surface Mount Switching Diode

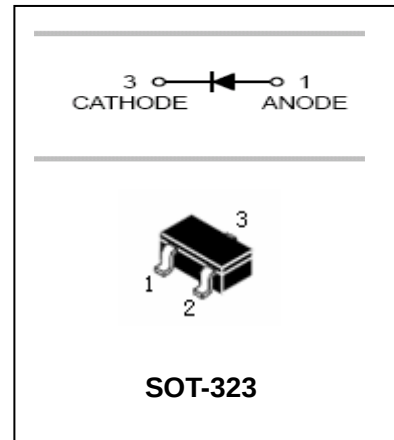
1SS370

FEATURES

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



Lead-free



SOT-323

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	μA
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

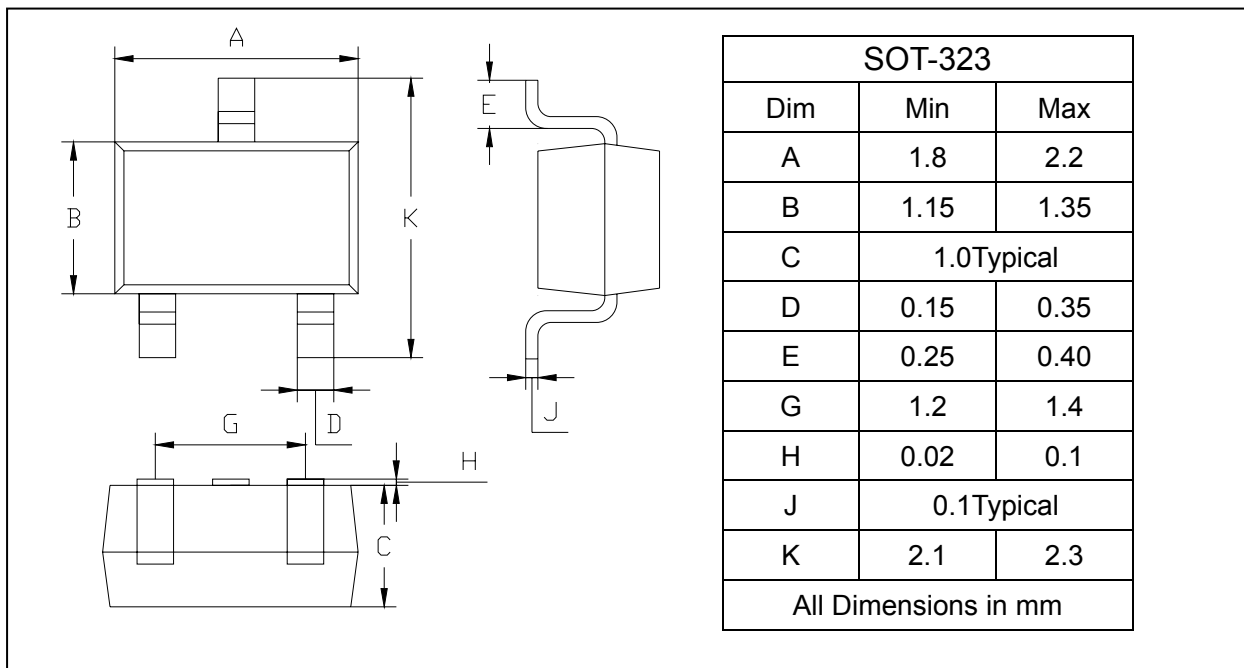
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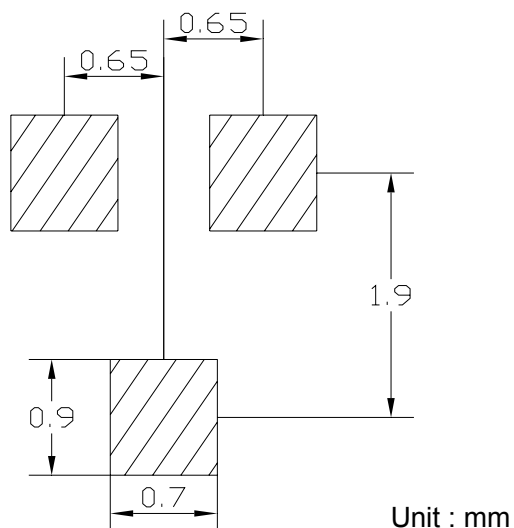
PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
1SS370	SOT-323	3000/Tape&Reel