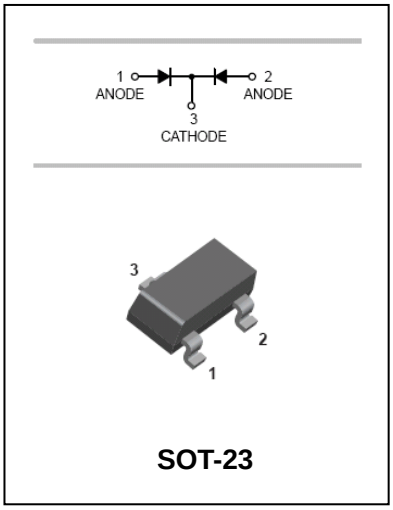
Dual surface mount switching diode **1SS337**

FEATURES

- Low forward voltage:$V_{F(3)}$=0.88V(typ).
- Fast reverse recovery time:t_{rr}=6ns(typ).
- Small total capacitance:C_T=1.6pF(typ).

Lead-free



SOT-23

APPLICATIONS

- Ultra high speed switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
1SS337	J9	SOT-23

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

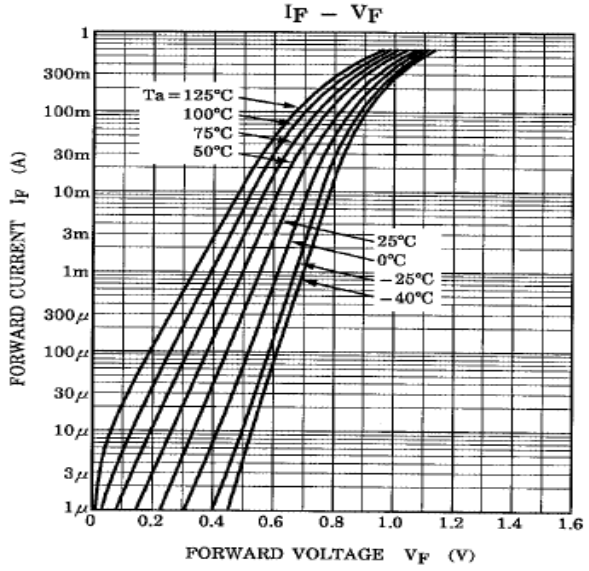
Parameter	**Symbol**	**Limits**	**Unit**
Maximum (peak) reverse voltage	V_{RM}	85	V
DC Reverse Voltage	V_R	80	V
Average rectified output current	I_O	200	mA
Forward Surge Current @t=10ms	I_{FSM}	6	A
Power Dissipation	P_d	150	mW
Junction temperature	T_j	150	℃
Storage temperature range	T_{stg}	-55 to +150	℃

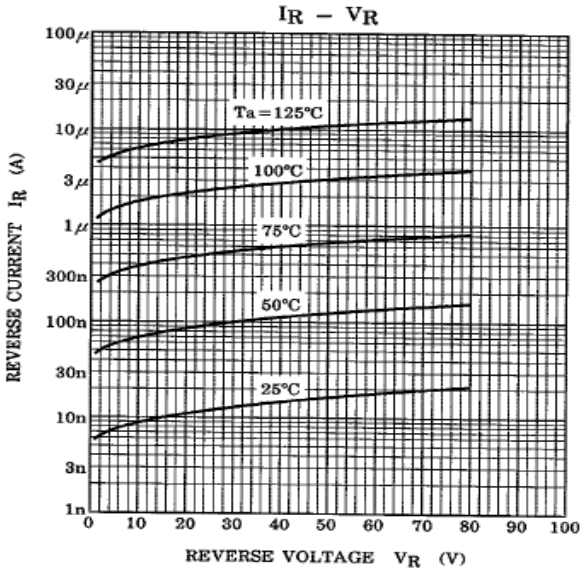
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

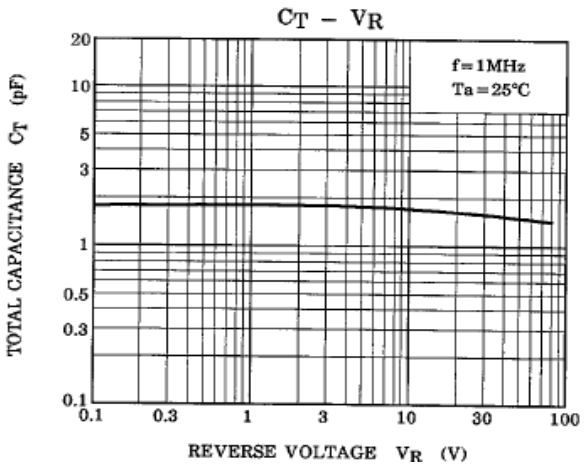
Dual surface mount switching diode **1SS337**

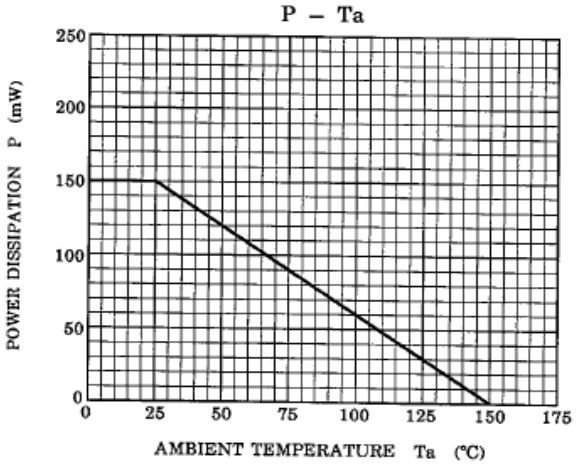
Parameter	Symbol	Test conditions	MIN	Typ	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	I_R= 100μA	80	-	-	V
Reverse voltage leakage current	I_R	V_R=30V V_R=80V	- -	- -	0.25 0.50	μA
Forward voltage	V_F	I_F=10mA I_F=100mA I_F=200mA	- - -	0.66 0.80 0.88	- - 1.20	V
Diode capacitance	C_T	V_R=0V,f=1MHz	-	1.6	-	pF
Reverse recovery time	t_{rr}	I_F=I_R=30mA,I_R=1mA V_R=5V,R_L=100Ω	-	6	20	ns

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified





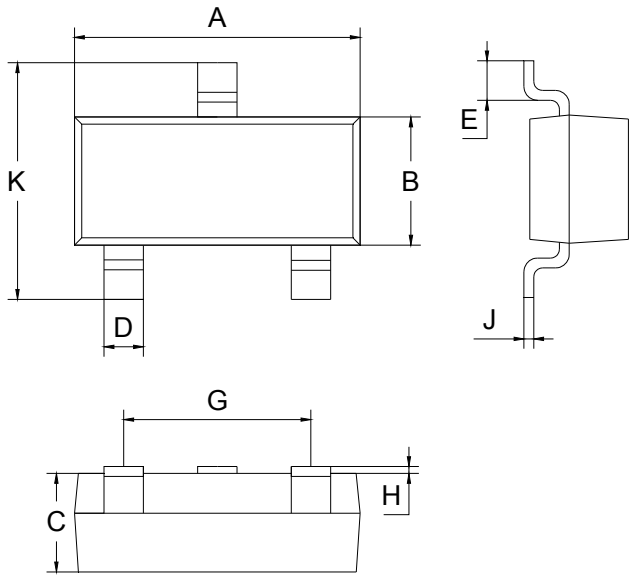




PACKAGE OUTLINE

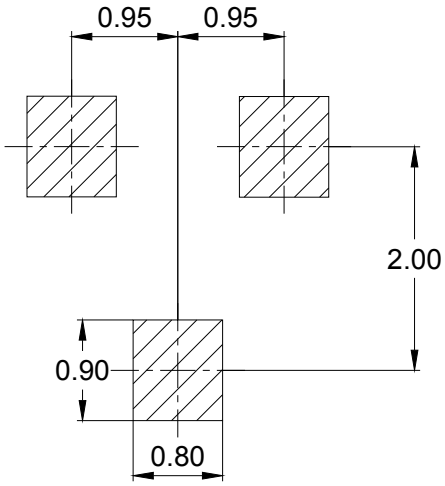
Dual surface mount switching diode **1SS337**

Plastic surface mounted package SOT-23



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
1SS337	SOT-23	3000/Tape&Reel