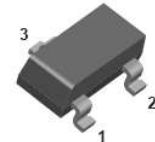
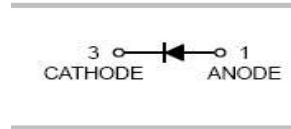




FEATURES

- Low Forward voltage:
 $V_F=0.54V(\text{Typ.})$
- Low Reverse Current:
 $I_R=5\mu A(\text{Max.})$



SOT-23

ORDERING INFORMATION

Type No.	Marking	Package Code
1SS294□	A2	SOT-23

□: none is for Lead Free package;
“G” is for Halogen Free package.

MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

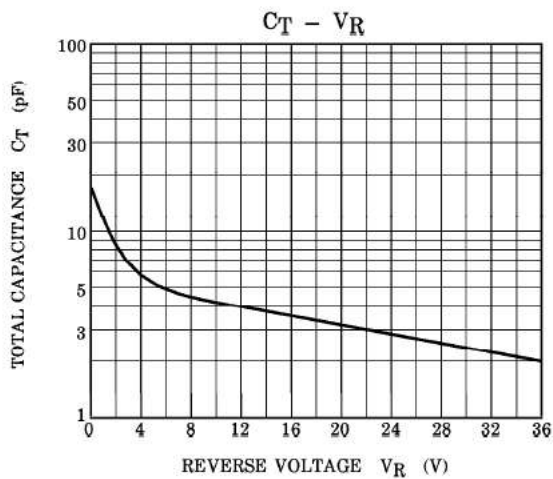
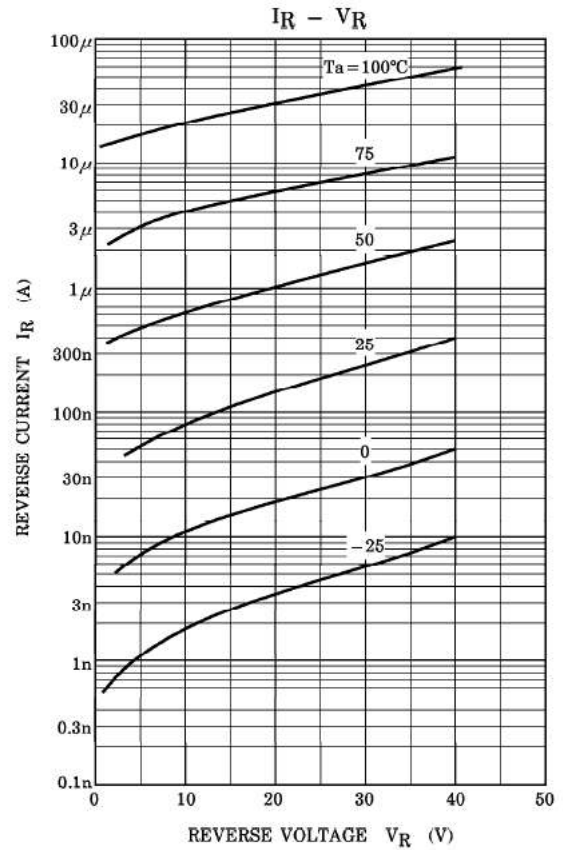
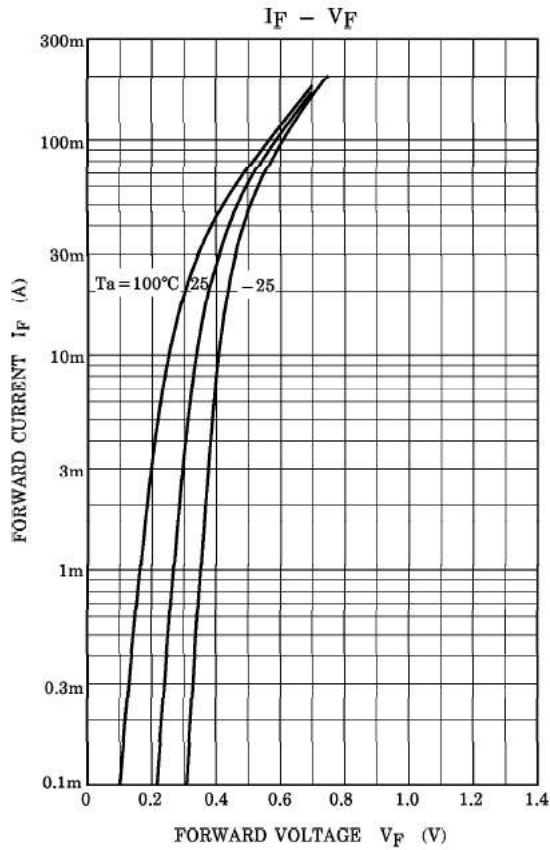
Parameter	Symbol	Limits	Unit
Maximum Peak reverse voltage	V_{RM}	45	V
Reverse Voltage	V_R	40	V
Maximum Peak Forward Current	I_{FM}	300	mA
Average Forward Current	I_O	100	mA
Power Dissipation	P_d	150	mW
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{STG}	-55 to +125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	0.28	-	V	$I_F=1\text{mA}$
	V_{F2}	-	0.36	-	V	$I_F=10\text{mA}$
	V_{F3}	-	0.54	0.60	V	$I_F=100\text{mA}$
Reverse current	I_R	-	-	5	μA	$V_R=40\text{V}$
Total Capacitance	C_T	-	18	25	pF	$V_R=1\text{V}, f=1\text{MHz}$



TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

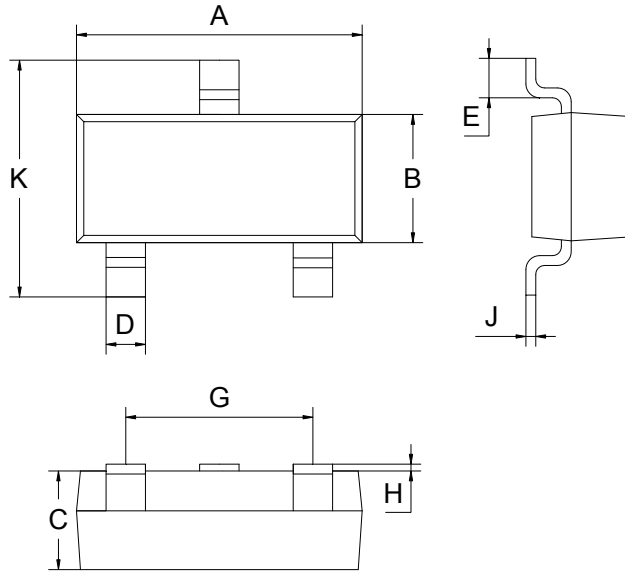




PACKAGE OUTLINE

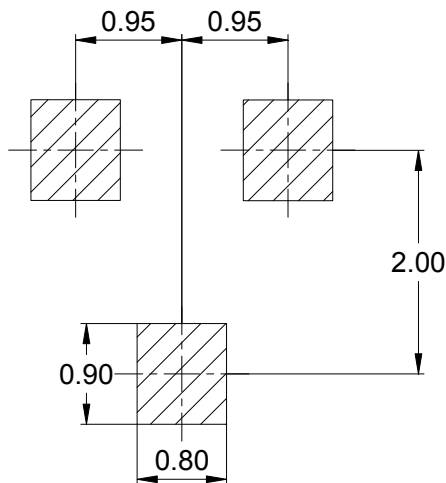
Plastic surface mounted package

SOT-23



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
1SS294	SOT-23	3000/Tape&Reel