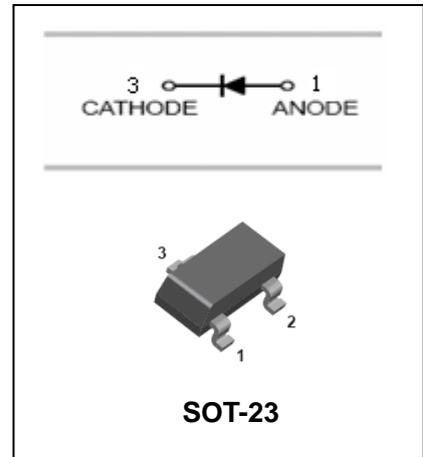


Surface mount schottky planar diode

**1SS344**

**FEATURES**

- Fast reverse recovery time:  $t_{rr}=20\text{ns}(\text{typ})$ .
- Low forward voltage:  $V_F=0.50\text{V}(\text{typ})$ .
- High average forward current:  $I_O=0.5\text{A}(\text{max.})$



**APPLICATIONS**

- Ultra high speed switching application.

**ORDERING INFORMATION**

Type No.	Marking	Package Code
1SS344	H9	SOT-23

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

Characteristic	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	25	V
DC Reverse Voltage	$V_R$	20	V
Average forward Output current	$I_O$	500	mA
Peak forward surge current @=1.0ms	$I_{FSM}$	5	A
Power Dissipation	$P_d$	200	mW
Operating Junction Temperature Range	$T_j$	125	°C
Storage Temperature Range	$T_{STG}$	-55 to +125	°C

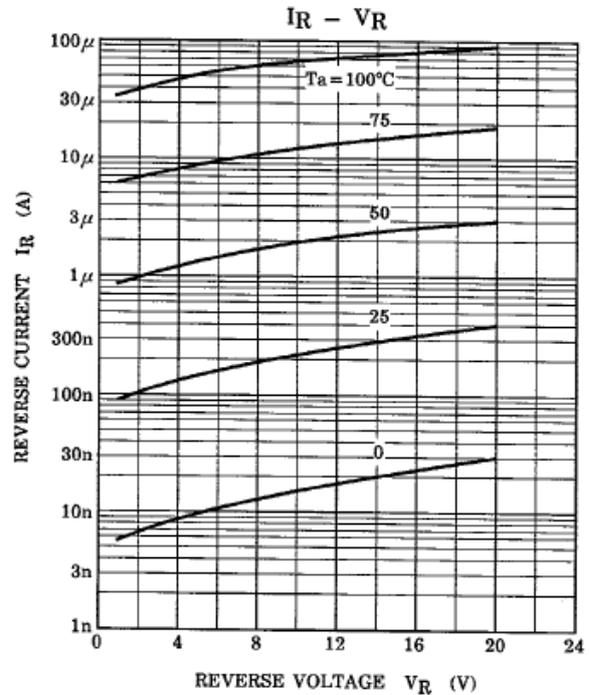
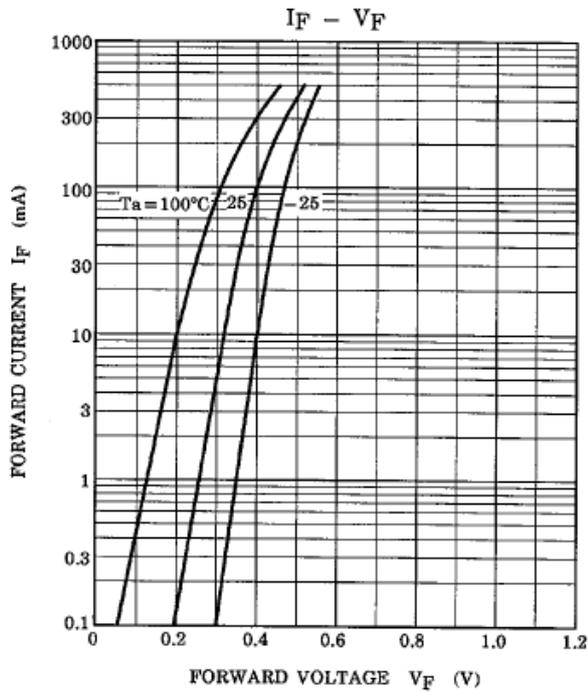
**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

Characteristic	Symbol	Min.	Typ.	MAX.	UNIT	Test Condition
Forward Voltage	$V_F$	-	0.30 0.38 0.50	- - 0.55	V	$I_F=10\text{mA}$ $I_F=100\text{mA}$ $I_F=500\text{mA}$
Reverse Leakage Current	$I_R$	-	-	20 100	$\mu\text{A}$	$V_R=10\text{V}$ $V_R=20\text{V}$
Diode Capacitance	$C_T$	-	120	-	pF	$V_R=0\text{V}, f=1\text{MHz}$
Reverse Recovery Time	$t_{rr}$	-	20	-	ns	$I_F=I_R=10\text{mA}, I_{rr}=0.1 \cdot I_R$

Surface mount schottky planar diode

**1SS344**

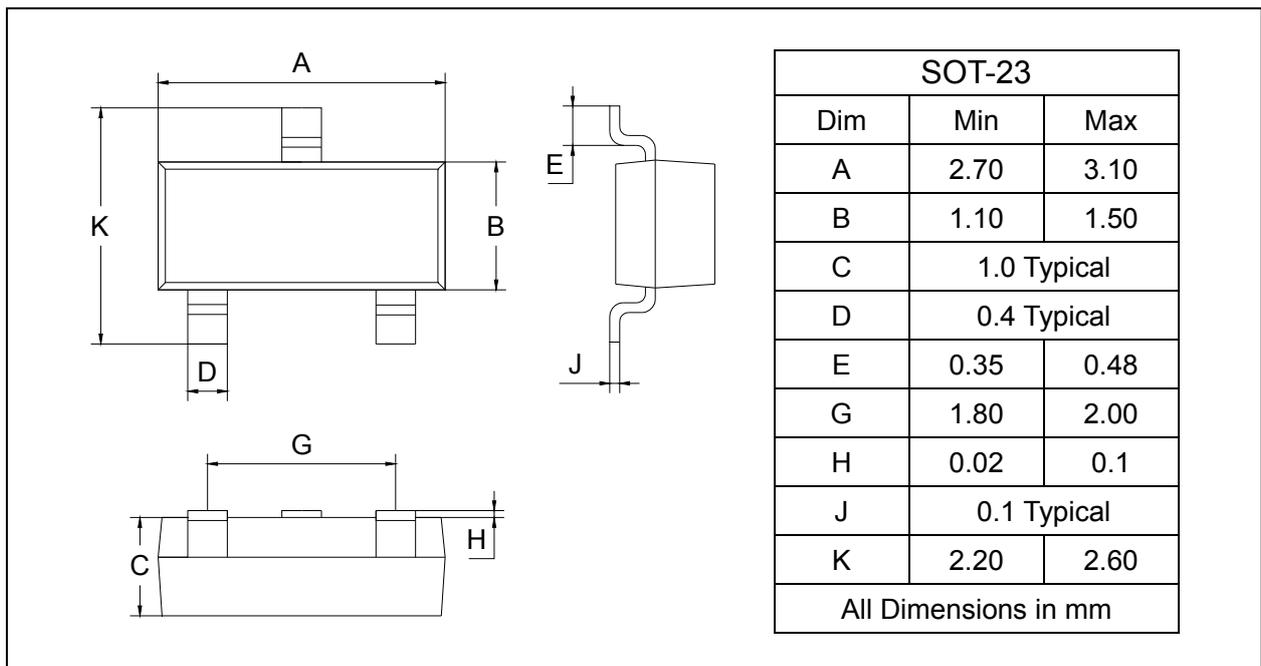
TYPICAL CHARACTERISTICS @  $T_a=25^\circ\text{C}$  unless otherwise specified



PACKAGE OUTLINE

Plastic surface mounted package

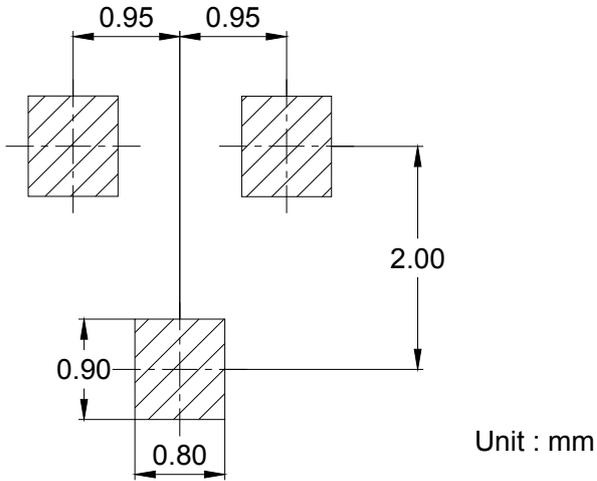
SOT-23



Surface mount schottky planar diode

**1SS344**

**SOLDERING FOOTPRINT**



**PACKAGE INFORMATION**

Device	Package	Shipping
1SS344	SOT-23	3000/Tape&Reel