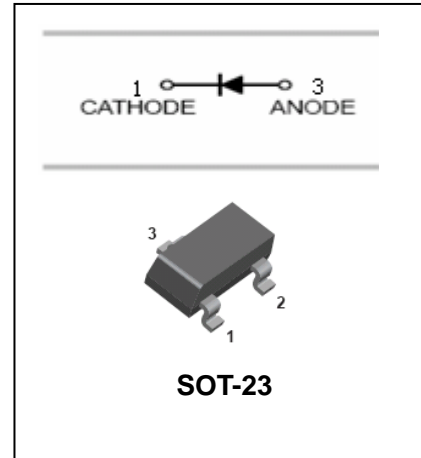


## Surface mount switching diode

## 1SS187

### FEATURES

- Low forward voltage  
 $V_{F(3)}=0.92V(\text{typ})$ .
- Fast switching.
- Fast reverse recovery time: $t_{rr}=1.6ns(\text{typ})$



### APPLICATIONS

- High speed switching application.

### ORDERING INFORMATION

Type No.	Marking	Package Code
1SS187	D3	SOT-23

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

Characteristic	Symbol	Limits	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	85	V
DC Reverse Voltage	$V_R$	80	V
Forward Continuous Current(max)	$I_{FM}$	300	mA
Forward Output current	$I_o$	100	mA
Power Dissipation	$P_d$	150	mW
Operating Junction Temperature Range	$T_j$	125	°C
Storage Temperature Range	$T_{STG}$	-55 to +125	°C

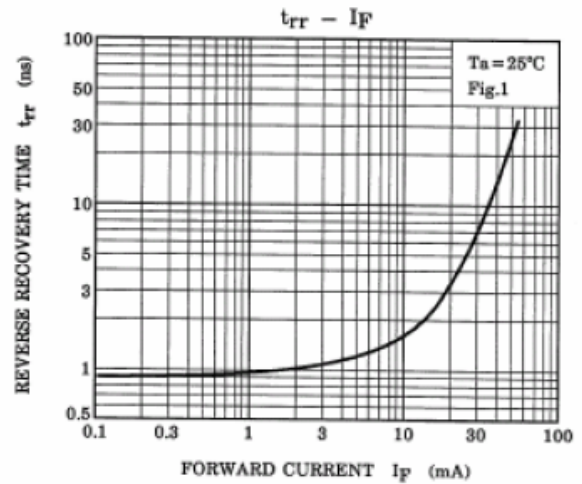
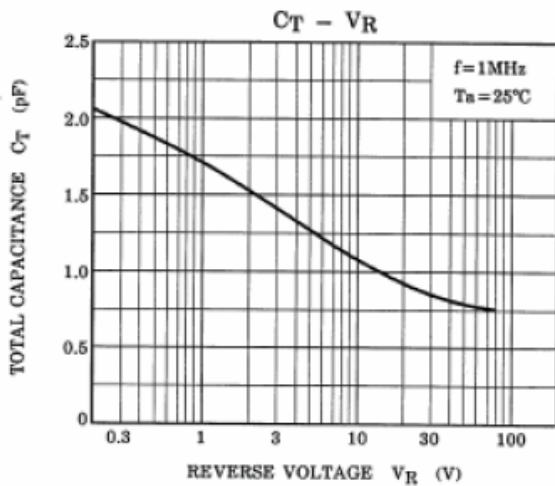
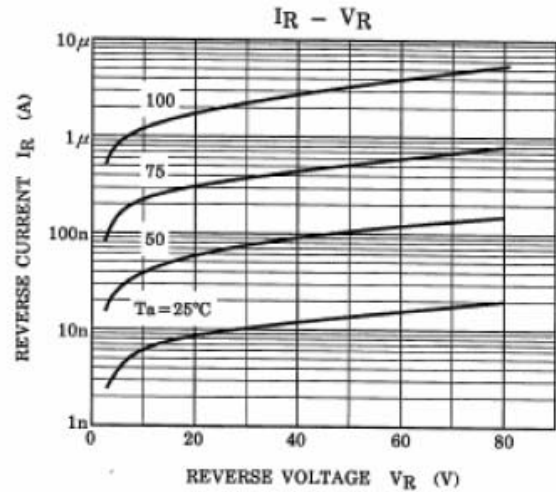
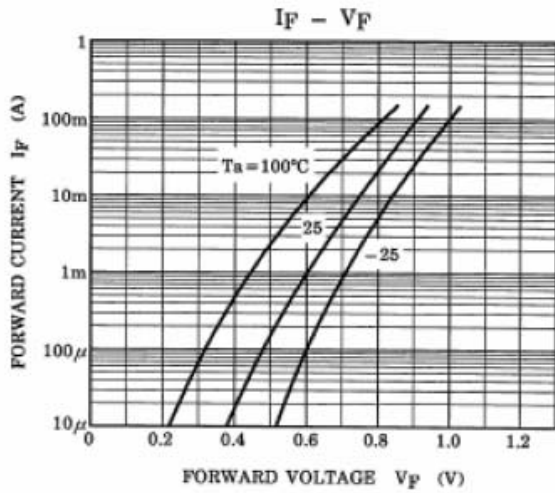
### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	MAX	UNIT	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	80	-	-	V	$I_R=100\mu A$
Forward Voltage	$V_F$	-	0.61 0.74 0.92	1.2	V	$I_F=1mA$ $I_F=10mA$ $I_F=100mA$
Reverse Leakage Current	$I_R$	-		0.1 0.5	$\mu A$	$V_R=30V$ $V_R=80V$
Junction Capacitance	$C_j$	-	2.2	4.0	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	$t_{rr}$	-	1.6	4.0	ns	$I_F=I_R=10mA, I_{rr}=0.1*I_R$

## Surface mount switching diode

## 1SS187

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



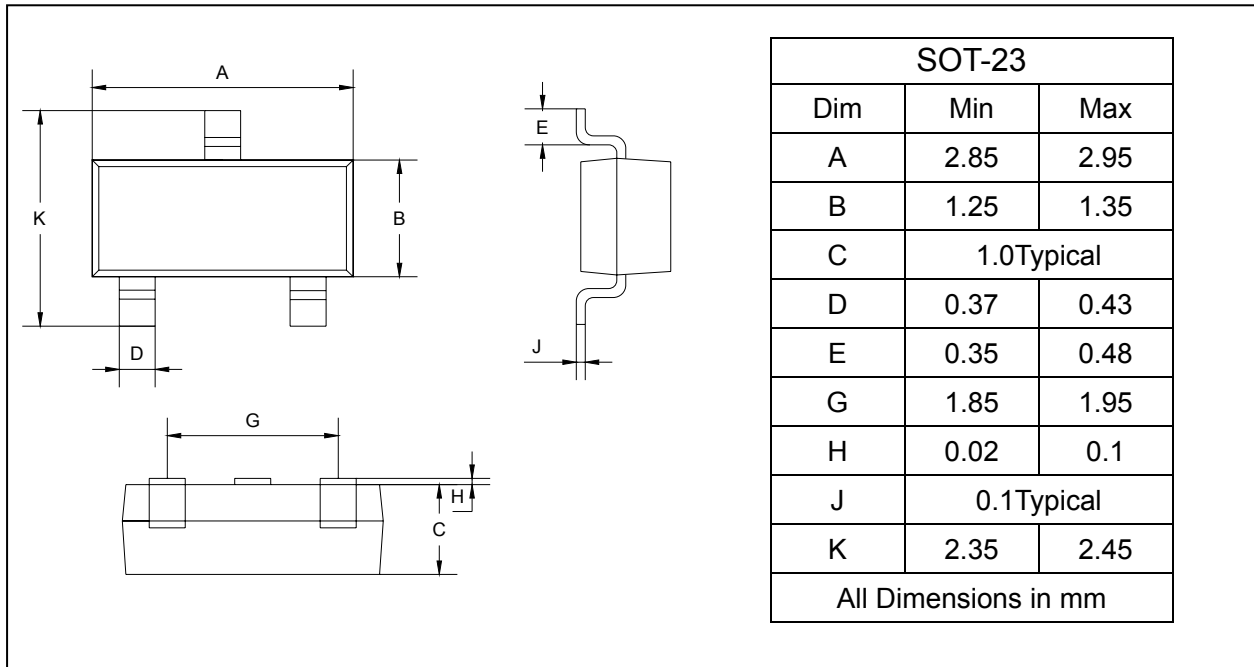
## Surface mount switching diode

## 1SS187

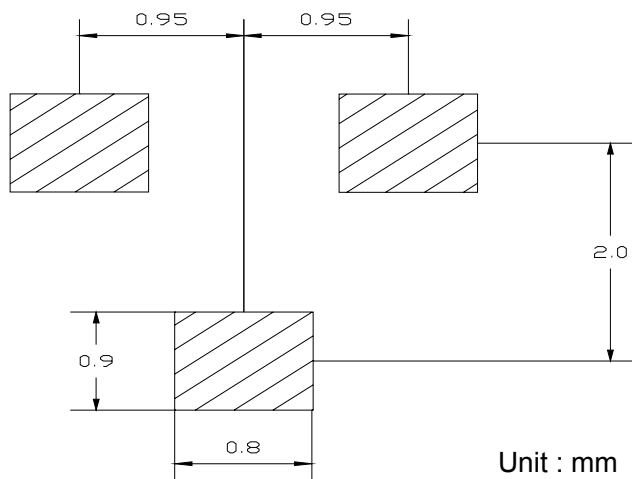
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



### SOLDERING FOOTPRINT



### PACKAGE INFORMATION

Device	Package	Shipping
1SS187	SOT-23	3000/Tape&Reel