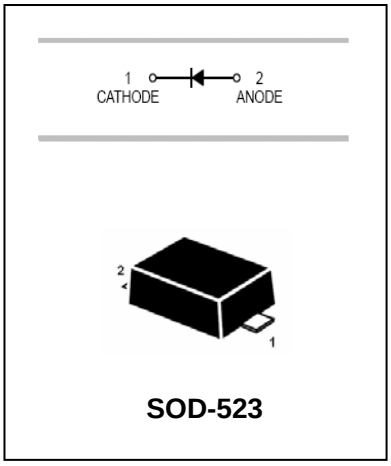
High Speed Switching Diode **1SS387**

FEATURES

- Low forward voltage.
- Fast reverse recovery time.
- Small total capacitance.

Lead-free



SOD-523

APPLICATIONS

- High-speed switching in surface mounted circuits.

ORDERING INFORMATION

Type No.	Marking	Package Code
1SS387	G	SOD-523

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

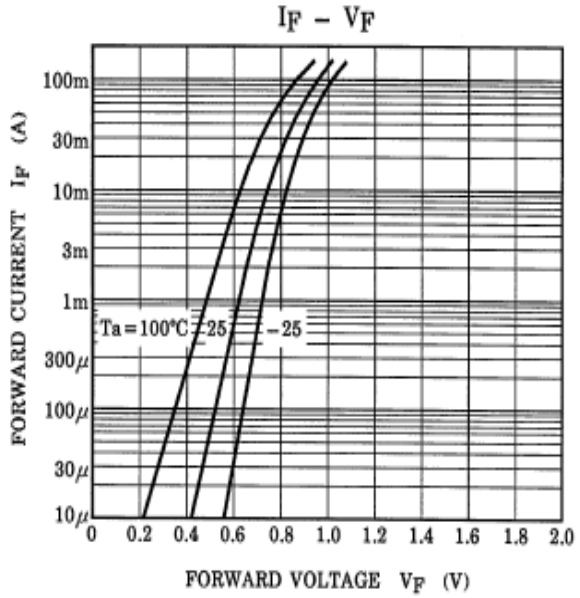
Parameter	**Symbol**	**Limits**	**Unit**
Repetitive peak reverse voltage	V_{RRM}	85	V
Reverse voltage	V_R	80	V
Continuous forward current	I_F	100	mA
Surge current	I_{FSM}	1	A
Total power dissipation	P_{tot}	150	mW
Junction temperature	T_j	125	℃
Storage temperature	T_{stg}	-55-125	℃

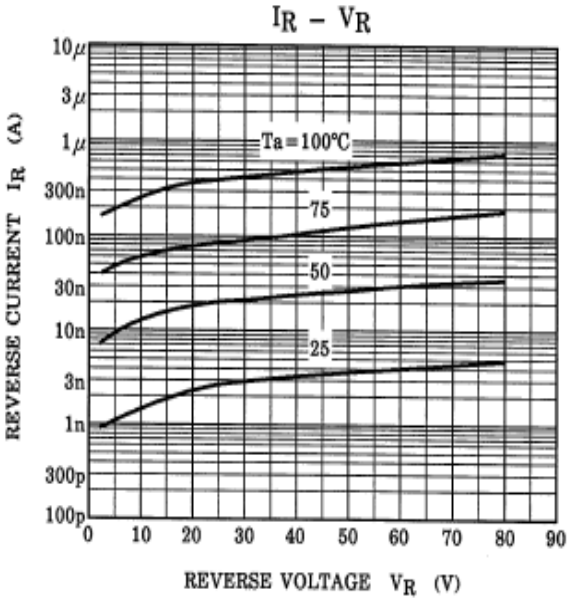
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

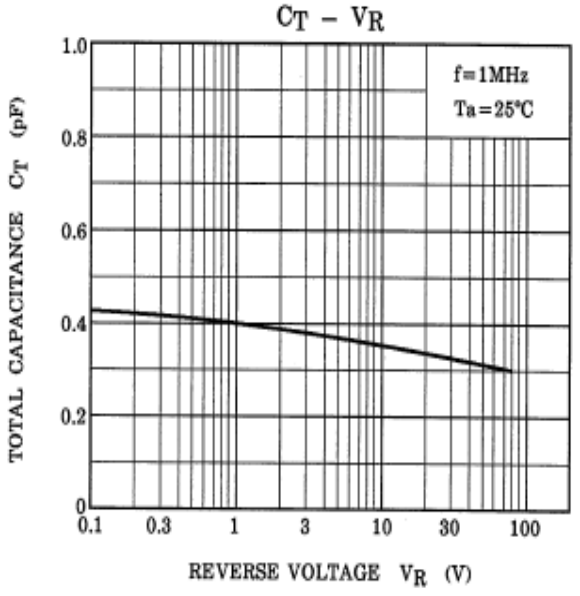
Parameter	**Symbol**	**Min.**	**Typ.**	**Max.**	**Unit**	**Conditions**
Forward voltage	V_F		0.62		V	I_F=1mA
			0.75		V	I_F=10mA
			0.98	1.2	V	I_F=100mA
Reverse current	I_R			0.1	μA	V_R=30V
				0.5	μA	V_R=80V
Diode capacitance	C_d		0.5	3	pF	V_R=0,f=1MHz
Reverse recovery time	t_{rr}		1.6	4	ns	I_F=10mA

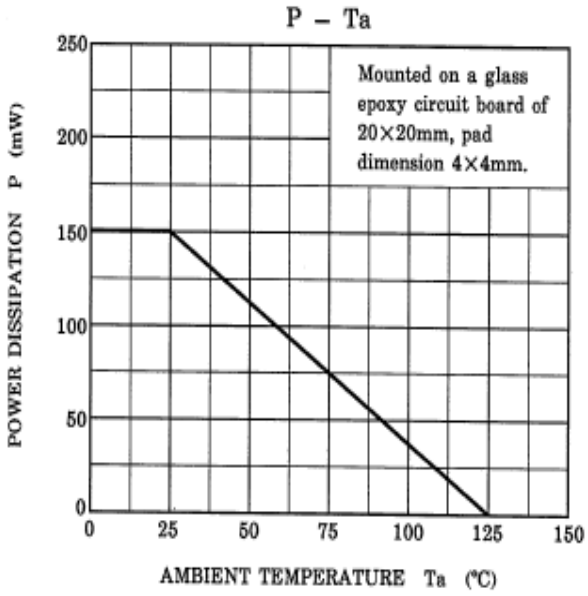
High Speed Switching Diode **1SS387**

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified





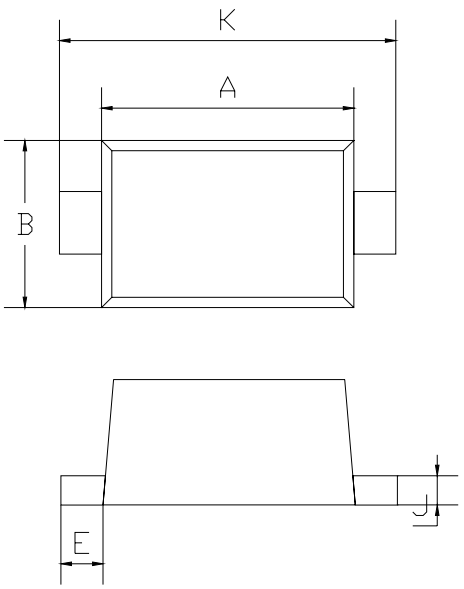




High Speed Switching Diode **1SS387**

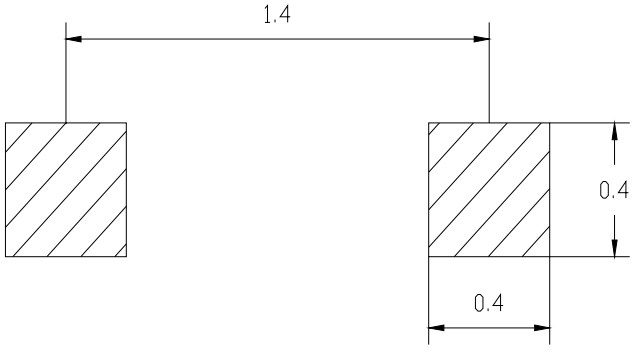
PACKAGE OUTLINE

Plastic surface mounted package SOD-523



SOD-523		
Dim	Min	Max
A	1.1	1..3
B	0.7	0.9
C	0.5	0.7
D	0.25	0.35
E	0.15	0.25
J	0.1 Typical	
K	1.5	1.7
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit：mm

PACKAGE INFORMATION

Device	Package	Shipping
1SS387	SOD-523	3000/Tape&Reel