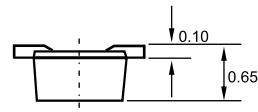
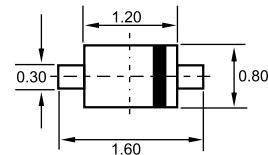




1 CATHODE 2 ANODE

SOD-523



Features

- ✧ Extremely small surface mounting type.
- ✧ Small package.
- ✧ High speed and high reliability.

Applications

- ✧ High speed switching.

Dimensions in inches and (millimeters)

Ordering Information

Type No.	Marking	Package Code
1SS400	A	SOD-523

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V _{RM}	90	V
DC Reverse voltage	V _R	80	V
Peak forward current(max.)	I _{FM}	225	mA
Forward output current	I _o	100	mA
Surge current(1s)	I _{surge}	0.5	A
Total power dissipation	P _{tot}	150	mW
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55-125	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F			1.2	V	I _F =100mA
Reverse current	I _R			0.1	μA	V _R =80V
Diode capacitance	C _d		0.72	3.0	pF	V _R =0.5V,f=1MHz
Reverse recovery time	t _{rr}			4	ns	V _R =6V,I _F =10mA,R _L =100Ω

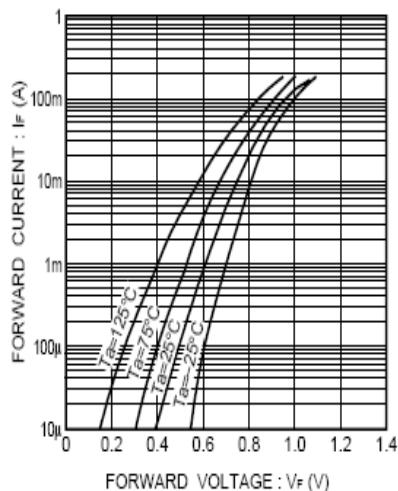
TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified


Fig.1 Forward characteristics

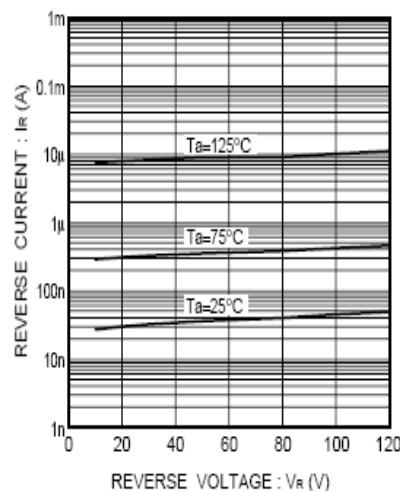


Fig.2 Reverse characteristics

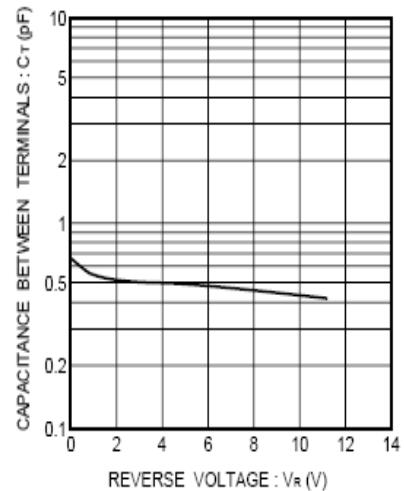


Fig.3 Capacitance between terminals

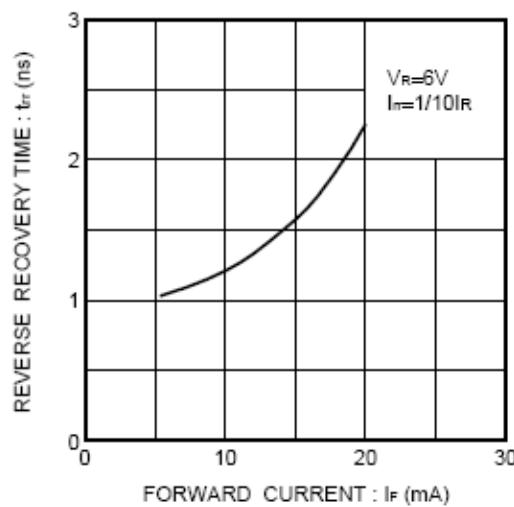


Fig.4 Reverse recovery time characteristics

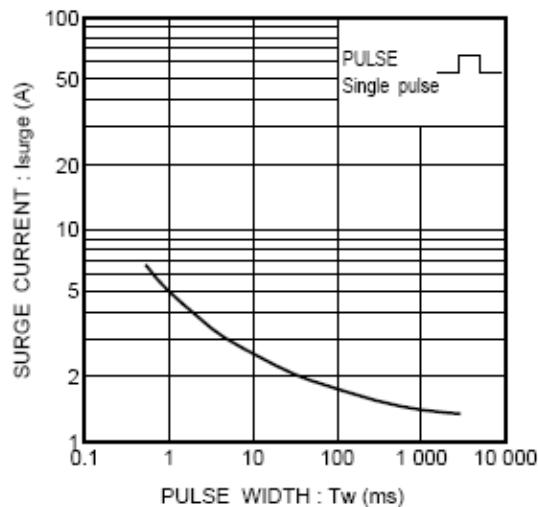


Fig.5 Surge current characteristics