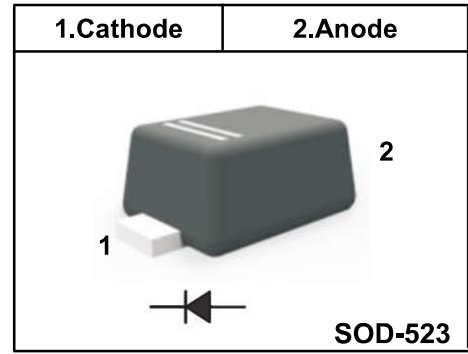


High Speed Switching Application

FEATURES

- ◆ Low forward voltage : $V_F(3) = 0.50V$ (typ.)
- ◆ Low reverse current : $I_R = 0.5\mu A$ (max)
- ◆ Small total capacitance : $C_T = 3.9pF$ (typ.)

Pinning



Marking Code

1SS405WT	A7
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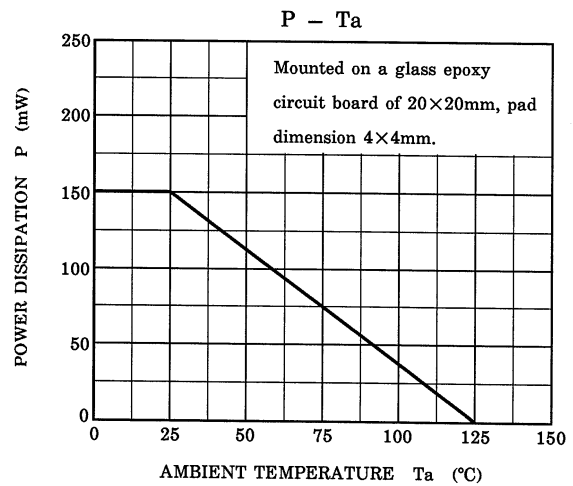
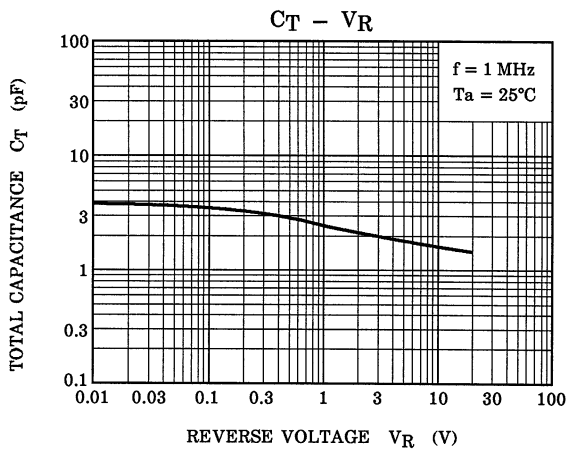
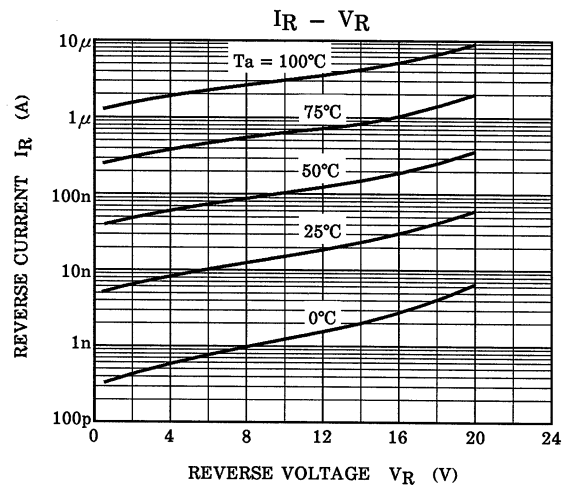
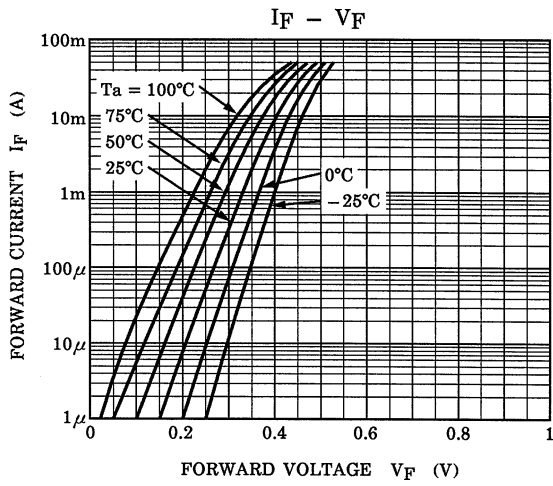
Maximum Ratings @ TA = 25°C unless otherwise specified

Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	25	V
Reverse voltage	V_R	20	V
Maximum (peak) forward current	I_{FM}	100	mA
Average forward current	I_O	50	mA
Surge current (10ms)	I_{FSM}	1	A
Power dissipation	P^*	150	mW
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55 to 125	°C

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_F(1)$	—	$I_F = 1mA$	—	0.33	—	V
	$V_F(2)$	—	$I_F = 5mA$	—	0.38	—	
	$V_F(3)$	—	$I_F = 50mA$	—	0.50	0.55	
Reverse current	I_R	—	$V_R = 20V$	—	—	0.5	μA
Total capacitance	C_T	—	$V_R = 0, f = 1MHz$	—	3.9	—	pF

Typical Characteristics



Ordering information

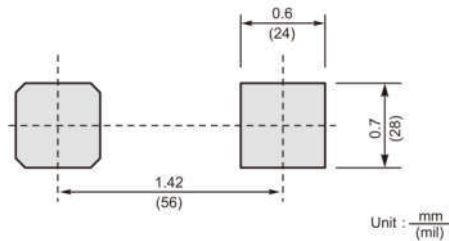
Package	Packing Description	Packing Quantity
SOD-523	Tape/Reel, 7"reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-523

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.51	0.77	20	30
e	0.25	0.35	10	14
C	0.08	0.15	3	6
D	1.10	1.30	43	51
E	0.75	0.99	30	39
HE	1.50	1.70	59	67
N	0.35ref		14ref	
L	0.2ref		8ref	
P	R0.1 ALL ROUND		R4.0 ALL ROUND	
∠	10°			

The recommended mounting pad size



Disclaimer

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