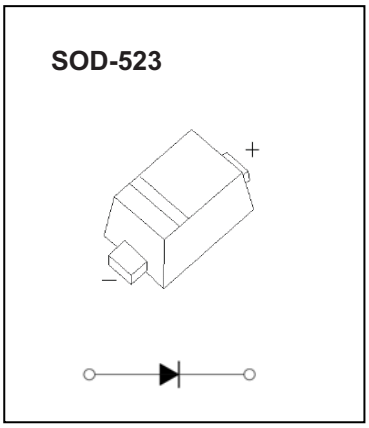
SOD-523

1SS405

High Speed Switching Application



FEATURES

- Low forward voltage : $V_{F\ (3)}$ = 0.50V (typ.)
- Low reverse current : I_R= 0.5μA (max)
- Small total capacitance : C_T = 3.9pF (typ.)

MARKING: A7

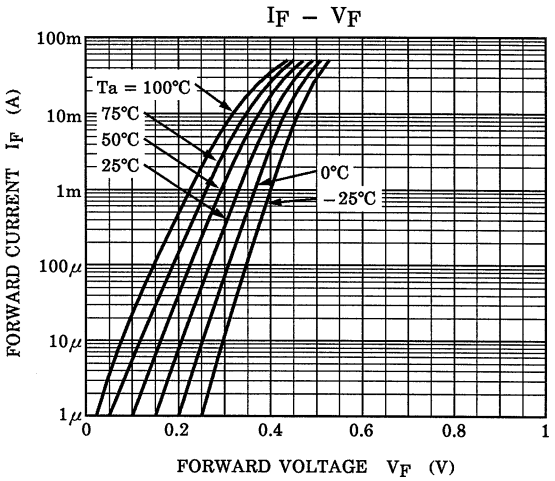
Maximum Ratings @ T_A = 25°C unless otherwise specified

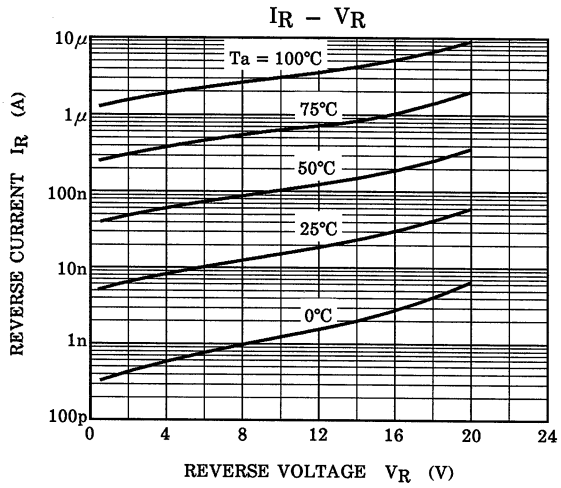
Characteristic	Symbol	Rating	Unit
Maximum (peak) reverse Voltage	V_{RM}	25	V
Reverse voltage	V_R	20	V
Maximum (peak) forward current	I_{FM}	100	mA
Average forward current	I_O	50	mA
Surge current (10ms)	I_{FSM}	1	A
Power dissipation	P *	150	mW
Junction temperature	T_j	125	°C
Storage temperature range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

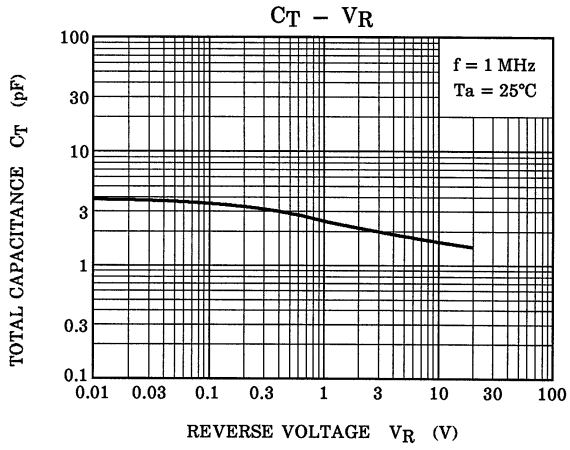
Electrical Characteristics (Ta = 25°C)

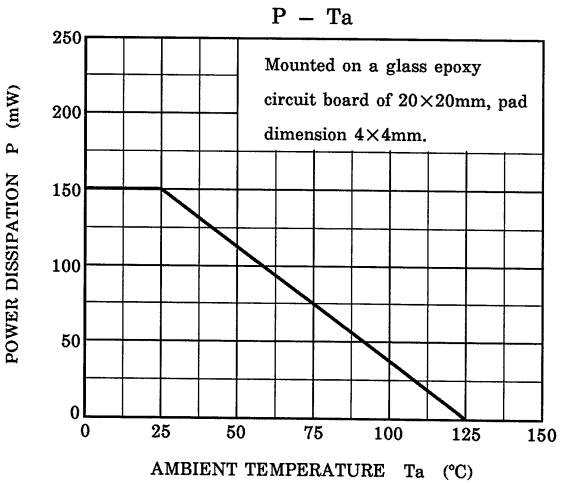
Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Forward voltage	$V_{F\ (1)}$	—	I_F = 1mA	—	0.33	—	V
	$V_{F\ (2)}$	—	I_F = 5mA	—	0.38	—	
	$V_{F\ (3)}$	—	I_F = 50mA	—	0.50	0.55	
Reverse current	I_R	—	V_R = 20V	—	—	0.5	μA
Total capacitance	C_T	—	V_R = 0, f = 1MHz	—	3.9	—	pF

Typical Characteristics



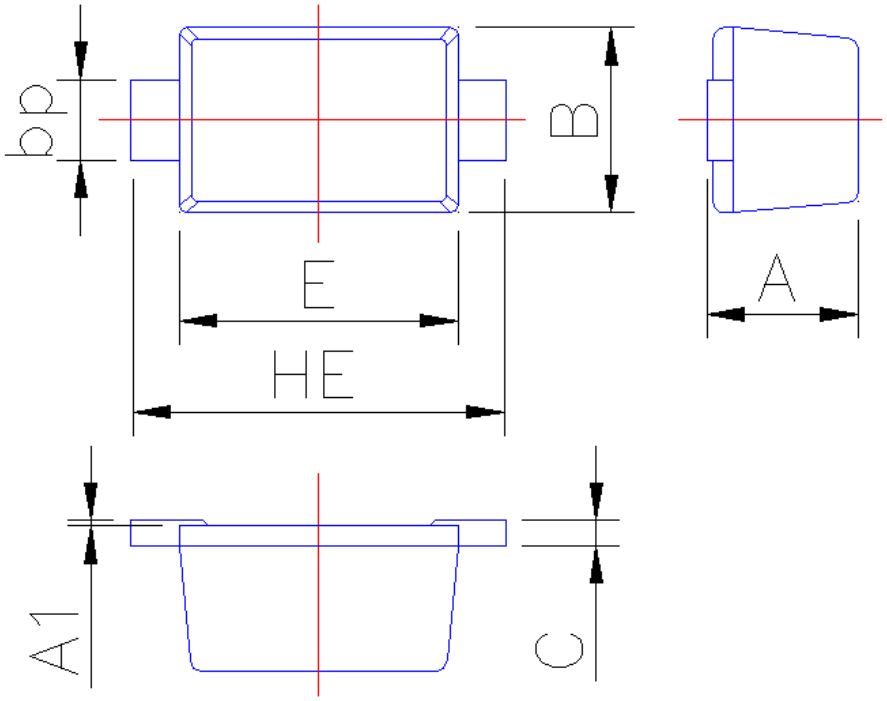






PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **SOD-523**



Symbol	Dimension in Millimeters	
	Min	Max
A	0.60	0.70
A1	0	0.05
B	0.75	0.85
bp	0.25	0.40
C	0.09	0.15
E	1.15	1.25
HE	1.50	1.70