



Micro Commercial Components



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1SS400

Features

- High speed switching diode
- Small Surface Mount Type
- High Reliability with High Surge Current Handling Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

90Volts High Speed Switching Diodes

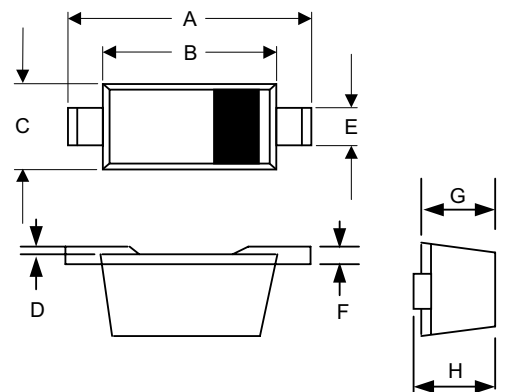
Mechanical Data

- Case: SOD-523
- Marking: A
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings @ 25°C Unless Otherwise Specified

DC Reverse Voltage	V_R	80	V
Peak Reverse Voltage	V_{RM}	90	V
Average Forward Rectified Current	I_O	100	mA
Peak Forward Current	I_{FM}	225	mA
Surge Current(1s)	I_{surge}	500	mA
Total Power Dissipation	P_{TOT}	150	mW
Storage Temperature Range	T_{STG}	-55 to +125	°C
Junction Temperature	T_j	125	°C

SOD-523



Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Instantaneous Forward Voltage	V_F	1.20V	$I_{FM} = 100mA$; $T_J = 25^\circ C$
Maximum Average Reverse Current	I_R	0.1uA	$V_R = 80Volts$ $T_J = 25^\circ C$
Capacitance between Terminals	C_T	3.0pF	Measured at 1.0MHz, $V_R = 0.5V$
Reverse Recovery Time	T_{rr}	4nS	$I_F = 10mA$ $V_R = 6V, R_L = 100 \Omega$

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
H	.020	.031	0.51	0.77	

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;8Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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