

TM

1SS389

**15 Volts
Switching Diode**

Features

- High speed switching diode
- Surface mount package
- For general purpose switching applications
- Marking: S4
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Mechanical Data

- Case: SOD-523, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings @ 25°C Unless Otherwise Specified

CHARACTERISTICS	SYMBOL	RATING	UNIT
Maximum Reverse Voltage	V _{RM}	15	V
Reverse Voltage	V _R	10	V
Average Forward Current	I _O	100	mA
Peak forward surge current	I _{FSM}	1	A
Power Dissipation	P	150	mW
Junction Temperature	T _J	125	°C
Storage Temperature Range	T _{STG}	-55~125	°C

SOD-523

The diagram shows a top view and a side view of the SOD-523 diode. The top view labels dimensions A (total width), B (width of the main body), C (height of the main body), and E (height of the cathode band). The side view labels dimensions D (height of the main body) and F (height of the cathode band).

DIM	DIMENSIONS		NOTE
	INCHES	MM	
A	Type .063	Type 1.60	
B	.472	1.20	
C	.032	0.80	
D	.026	0.65	
E	.012	0.30	
F	.004	0.10	

Electrical Characteristics @ 25°C Unless Otherwise Specified

CHARACTERISTICS	SYMBOL	Typ	Max	Unit	Conditions
Forward Voltage	V _F	0.18	0.30	V	I _F =1 mA
		0.23			I _F =5 mA
		0.35	0.50		I _F =100 mA
Reverse Current	I _R		20	µA	V _R =10V
Total Capacitance	C _T	20	40	PF	V _R =0V, f=1MHZ

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

