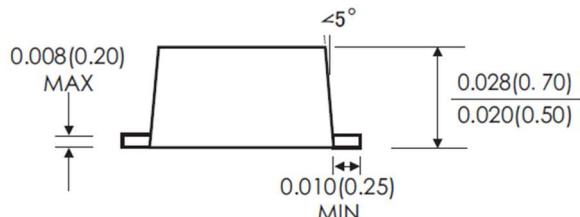
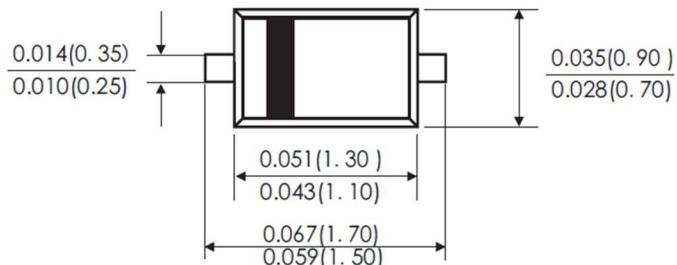


SWITCHING DIODE

Features

- Fast switching diode
- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance

SOD-523



Dimensions in inches and (millimeters)

Applications

- High-speed switching
- General-purpose switching

Marking information

- Marking: A

Absolute Maximum Ratings (T=25°C, unless otherwise noted)

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
DC Reverse Voltage	V _R	80	V
Average rectified output current	I _{O(AV)}	100	mA
Maximum peak forward current	I _{FM}	200	mA
Peak Forward Surge Current (Pulse Width=1s)	I _{FSM}	500	mA
Power Dissipation	P _D	200	mW
Operating Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

Electrical Characteristics (T=25°C, unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R = 100μA	100		V
Reverse Leakage Current	I _R	V _R = 80V		0.1	μA
Forward Voltage	V _F	I _F = 100mA		1.2	V
Total Capacitance	C _T	V _R = 0.5V, f = 1.0MHZ		3	pF
Reverse Recovery Time	t _{rr}	I _F = 10mA, V _R = 6V, R _L = 100Ω		4	ns

Typical Characteristics

