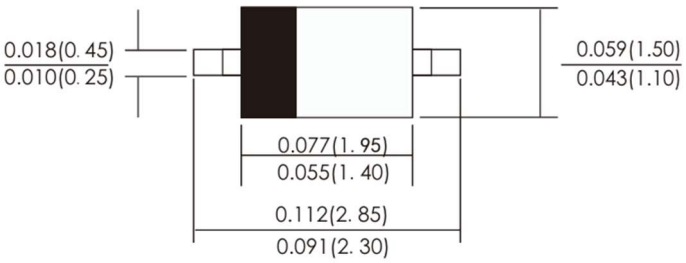
SWITCHING DIODE

Features

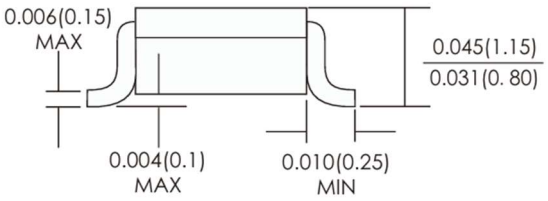
- Fast switching device
- Power Dissipation of 250mW
- Low reverse leakage
- High Stability and High Reliability

SOD-323



Mechanical Characteristics

- Package: SOD-323
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Tape Reel :3000pcs



Dimensions in inches and (millimeters)

Applications

- Electronic computer
- Pulse
- Switching circuit

Marking information

- Marking: A6

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

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	100	V
Continuous reverse voltage	V_R	100	V
Average rectified output current	I_O	250	mA
Non-repetitive Peak Forward Surge Current @tp=1μs	I_{FSM}	2	A
Power Dissipation	P_D	250	mW
Operating Junction Temperature	T_J	150	℃
Storage Temperature	T_{STG}	-55 ~ +150	℃
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	℃/W

Electrical Characteristics (T=25ºC, 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 = 25V		30	nA
		V_R = 75V		1	μA
Forward Voltage	V_F	I_F = 1.0mA		0.715	V
		I_F = 10mA		0.855	
		I_F = 50mA		1	
		I_F = 150mA		1.25	
Total Capacitance	C_T	V_R = 0V, f=1.0MHZ		1.5	pF
Reverse Recovery Time	t_{rr}	I_R = I_F = 10mA, I_{RR} =1mA, R_L = 100Ω		4	nS

Typical Characteristics