

# SOD-123 SCHOTTKY BARRIER DIODE

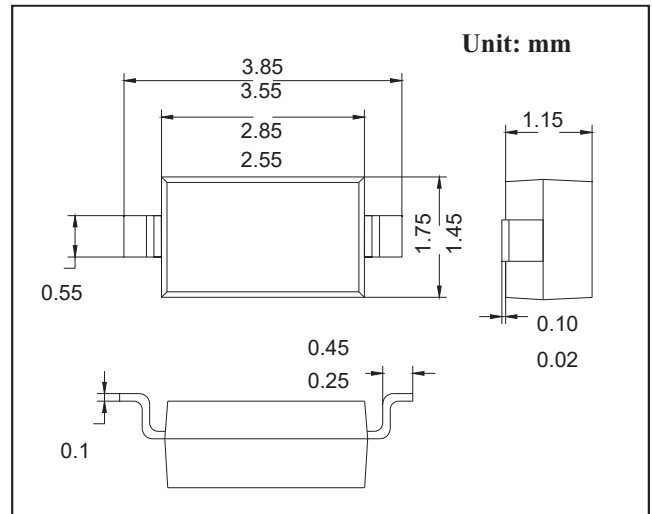
VOLTAGE RANGE:60V PEAK PULSE POWER:400mW

## FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time

## MECHANICAL DATA

- Case: SOD-123 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



## MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Forward Continuous Current	$I_{FM}$	15	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	2.0	A
Power Dissipation	$P_d$	400	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250	°C/W
Junction temperature	$T_j$	125	°C
Storage Temperature	$T_{STG}$	-55~+150	°C

## Electrical Specification (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_R$	60			V	$I_R=10\mu A$
Forward voltage	$V_F$			0.41 1.00	V	$I_F=1.0mA$ $I_F=15mA$
Reverse current	$I_{RM}$			0.2	$\mu A$	$V_R=50V$
Capacitance between terminals	$C_T$			2.0	pF	$V_R=0V, f=1.0MHz$
Reverse recovery time	$t_{rr}$			1.0	ns	$I_F=I_R=5mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

MARKING: S1

## RATINGS AND CHARACTERISTIC CURVES

