

# SOD-123 SCHOTTKY BARRIER DIODE

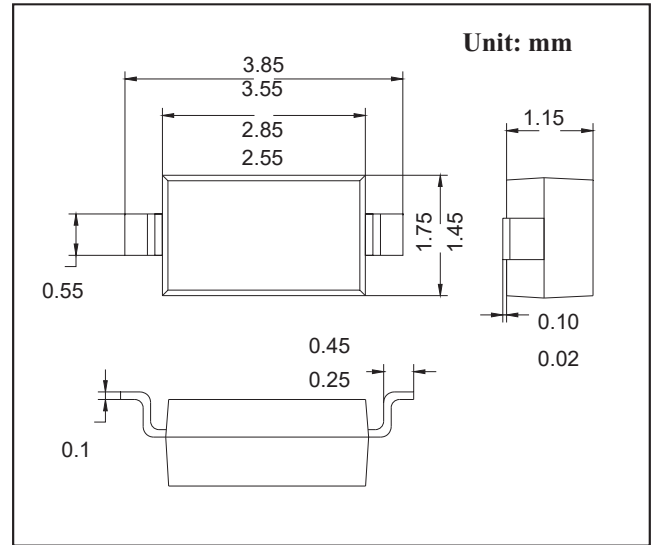
VOLTAGE RANGE: 20V PEAK PULSE POWER:200mW

## FEATURES

- Low Forward Voltage Drop
- High Conductance

## 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 specified)

Parameter	Symbol	Value	Unit
Peak repetitive peak reverse voltage	$V_{RRM}$	20	V
Working peak reverse voltage	$V_{RWM}$		
DC blocking voltage	$V_R$		
RMS reverse voltage reverse voltage (DC)	$V_{R(RMS)}$	14	V
Average rectified output current	$I_o$	0.5	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	5.5	A
Power dissipation	$P_D$	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	°C/W
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{STG}$	-55~+150	°C
Voltage rate of change	dv/dt	1000	V/μs

## Electrical Characteristics (TA = 25°C unless otherwise specified)

	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=250\mu A$	20			V
Reverse current	$I_R$	$V_R=10V$			75	μA
		$V_R=20V$			250	
Forward voltage	$V_F$	$I_F=0.1A$			0.33	V
		$I_F=0.5A$			0.39	
Capacitance between terminals	$C_T$	$V_R=1, f=1MHz$		170		pF

MARKING:SD

RATINGS AND CHARACTERISTIC CURVES

