

SOD-123 SCHOTTKY BARRIER DIODE

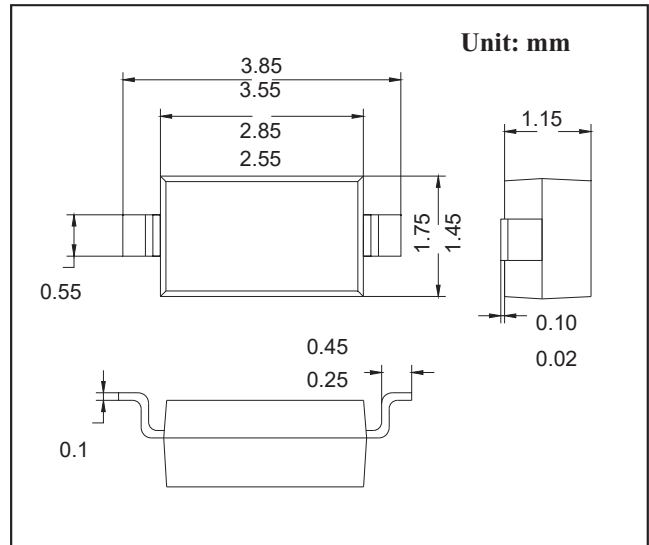
VOLTAGE RANGE: 30V PEAK PULSE POWER:500mW

FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance
- Also Available in Lead Free Version

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}	30	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
RMS reverse voltage reverse voltage (DC)	$V_{R(RMS)}$	21	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	500	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	200	°C/W
Junction temperature	T_j	125	°C
Storage temperature	T_{STG}	-55~+150	°C
Voltage rate of change	dv/dt	1000	V/ μ s

Electrical Specification (TA=25°C unless otherwise specified)

	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V(BR)$	$I_R=200\mu A$	30			V
Reverse current	I_R	$V_R=15V$			20	μA
		$V_R=30V$			130	
Forward voltage	V_F	$I_F=0.1A$			0.375	V
		$I_F=0.5A$			0.430	
Capacitance between terminals	CT	$V_R=1, f=1MHz$		170		pF

MARKING:SE

RATINGS AND CHARACTERISTIC CURVES

