

SOD-123 SCHOTTKY BARRIER DIODE

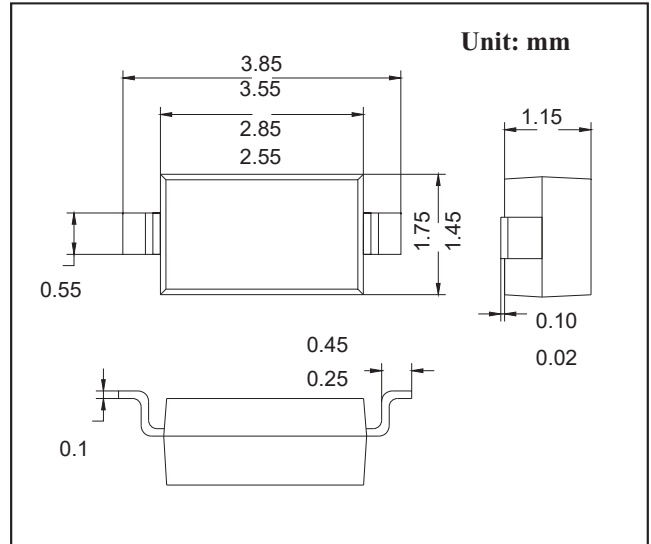
VOLTAGE RANGE:60V PEAK PULSE POWER:400mW

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

Ratings at 25 C ambient temperature unless otherwise specified

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 ($T_A=25@25^{\circ}C$ 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	μA	$V_R=50V$
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

