

SOD-323 SCHOTTKY BARRIER DIODE

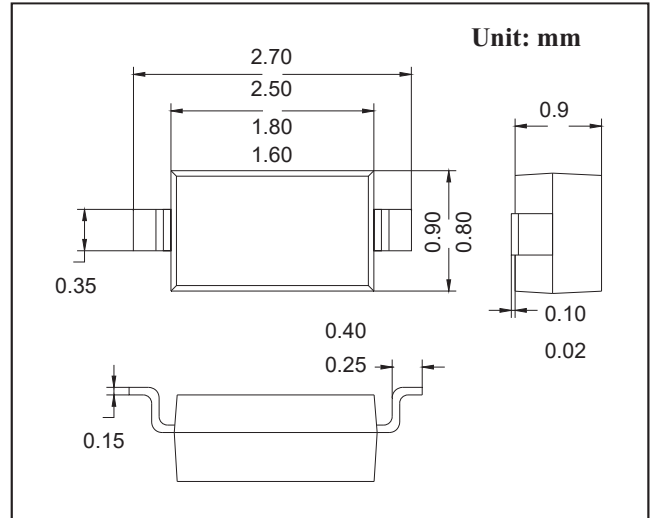
VOLTAGE RANGE: 50V
PEAK PULSE POWER:200mW

FEATURES

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

MECHANICAL DATA

- Case: SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	50	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	35	V
I_{FM}	Forward Continuous Current	15	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @t=8.3ms	2	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500	°C/W
T_j	Junction Temperature	125	°C
T_{stg}	Storage Temperature	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=10\mu A$	50			V
Reverse current	I_R	$V_R=40V$			0.2	μA
Forward voltage	V_F	$I_F=1mA$			0.40	V
		$I_F=15mA$			0.95	
Total capacitance	C_{tot}	$V_R=0V, f=1MHz$			2.1	pF
Reverse recovery time	t_{rr}	$I_F=I_R=5mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$			1	ns

MARKING: S2

RATINGS AND CHARACTERISTIC CURVES

