

## SCHOTTKY BARRIER DIODE

VOLTAGE RANGE: 40V PEAK PULSE POWER:500mW

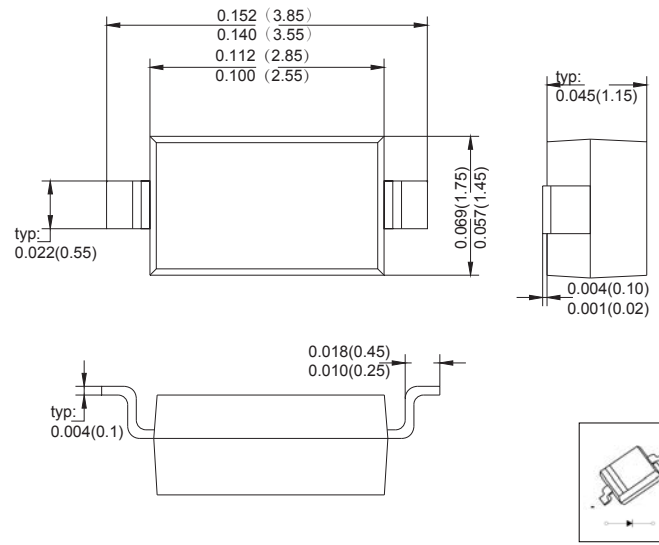
### FEATURES

- 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

### SOD-123



## MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak repetitive peak reverse voltage	$V_{RRM}$	40	V
Working peak reverse voltage	$V_{RWM}$		
DC blocking voltage	$V_R$		
RMS reverse voltage reverse voltage (DC)	$V_{R(RMS)}$	28	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/μs

## Electrical Specification ( $T_A=25@25^{\circ}C$ unless otherwise specified)

	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V(BR)$	$I_R = 20\mu A$	40			V
Reverse current	$I_R$	$V_R = 20V$			10	μA
		$V_R = 40V$			20	
Forward voltage	$V_F$	$I_F = 0.5A$			0.51	V
		$I_F = 1.0A$			0.62	
Capacitance between terminals	$C_T$	$V_R = 0, f = 1MHz$			170	pF

MARKING:SF

# RATINGS AND CHARACTERISTIC CURVES

