

## SCHOTTKY BARRIER DIODE

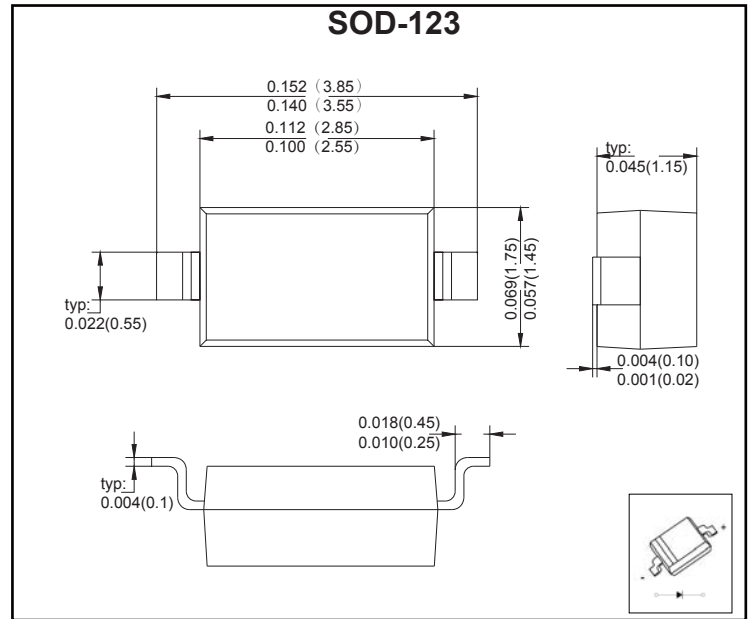
VOLTAGE RANGE: 30V PEAK PULSE POWER:500mW

### 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

Ratings at 25 C ambient temperature unless otherwise specified

Parameter	Symbo	Value	Unit
Peak repetitive peak reverse voltage	$V_{RRM}$		
Working peak reverse voltage	$V_{RWM}$	30	V
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	$^{\circ}C/W$
Junction temperature	$T_j$	125	$^{\circ}C$
Storage temperature	$T_{STG}$	-55~+150	$^{\circ}C$
Voltage rate of change	dv/dt	1000	V/ $\mu s$

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

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

MARKING:SE

# RATINGS AND CHARACTERISTIC CURVES

