

## SCHOTTKY BARRIER DIODE

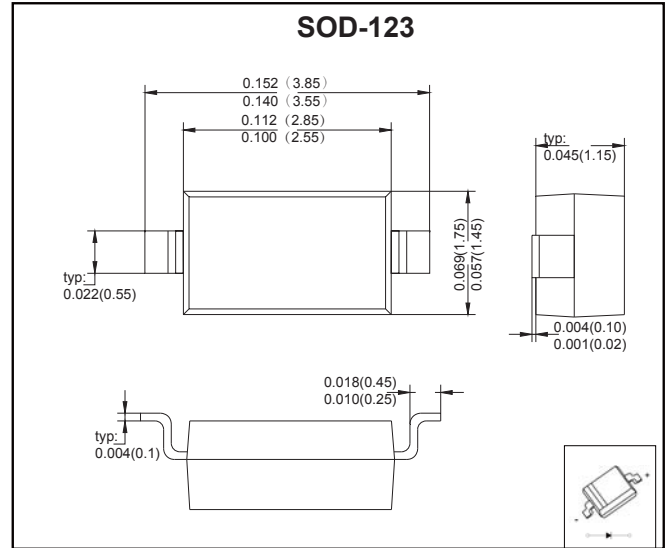
VOLTAGE RANGE: 40V PEAK PULSE POWER:400mW

### 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	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	28	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 ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_R$	40			V	$I_R=10\mu\text{A}$
Forward voltage	$V_F$			0.39 0.90	V	$I_F=1.0\text{mA}$ $I_F=15\text{mA}$
Reverse current	$I_R$			0.2	$\mu\text{A}$	$V_R=30\text{V}$
Capacitance between terminals	$C_T$		2.2		pF	$V_R=0\text{V}, f=1.0\text{MHz}$
Reverse recovery time	$t_{rr}$			1.0	ns	$I_F=I_R=5\text{mA}$ $I_{rr}=0.1I_R, R_L=100\Omega$

MARKING: S3

# RATINGS AND CHARACTERISTIC CURVES

