

# SOT-23 SCHOTTKY BARRIER DIODE

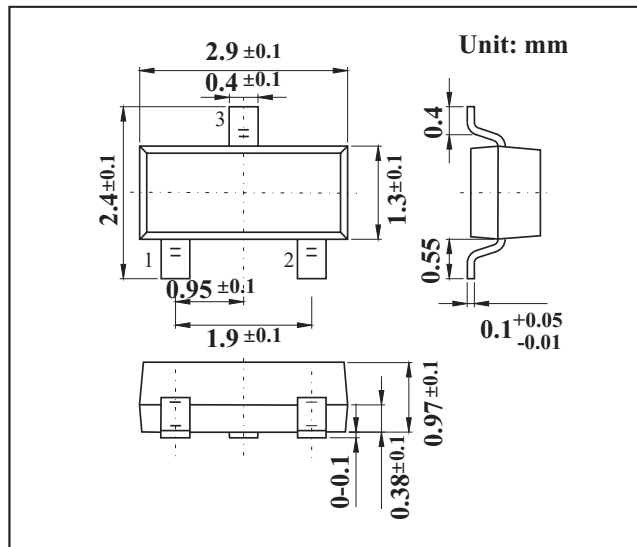
VOLTAGE RANGE: 40V PEAK PULSE POWER:250mW

## FEATURES

- Small Surface Mounting
- Type Low VF
- High Reliability
- Low Power Rectification

## MECHANICAL DATA

- Case: SOT-23 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
$V_R$	Continuous Reverse Voltage	40	V
$I_O$	Continuous Forward Current	100	mA
$I_{FSM}$	Non-repetitive Peak Forward Surge Current @t=8.3ms	1	A
$P_D$	Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	400	°C/W
$T_j$	Junction Temperature	125	°C
$T_{stg}$	Storage Temperature	-55~+150	°C

## Electrical Specification (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	V(BR)	I <sub>R</sub> =100μA	40			V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =10V			30	μA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =100mA			0.55	V
		I <sub>F</sub> =10mA			0.34	
Total capacitance	C <sub>tot</sub>	V <sub>R</sub> =10V, f=1MHz		6		pF

MARKING: D3L

## RATINGS AND CHARACTERISTIC CURVES

