



Dimensions in inches and (millimeters)

### FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Leakage Current
- Pb-Free package is available
- RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1

**MARKING: KLL**

**SD103ATW****SCHOTTKY BARRIER DIODE**

<b>Maximum Ratings (<math>T_a=25^\circ\text{C}</math> unless otherwise noted)</b>			
<b>Parameter</b>	<b>Symbol</b>	<b>Limit</b>	<b>Unit</b>
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	$I_{FM}$	350	mA
Average Rectified Forward Current	$I_O$	175	mA
Repetitive Peak Forward Surge Current @ $t \leq 10\text{ms}$	$I_{FSM}$	1	A
Power Dissipation	$P_D$	200	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Operating Temperature	$T_J$	-55~+125	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55~+150	$^\circ\text{C}$

<b>Electrical Characteristics (<math>T_a=25^\circ\text{C}</math> unless otherwise noted)</b>						
<b>Parameter</b>	<b>Symbol</b>	<b>Test conditions</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Unit</b>
Reverse Voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	40	—	—	V
Forward Voltage	$V_F$	$I_F=20\text{mA}$	—	—	0.37	V
		$I_F=100\text{mA}$	—	—	0.50	
Reverse Current	$I_R$	$V_R=10\text{V}$	—	—	2	$\mu\text{A}$
		$V_R=30\text{V}$	—	—	5	
Total capacitance	$C_T$	$V_R=0\text{V}$ , $f=1\text{MHz}$	—	50	—	pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=200\text{mA}$ $I_{rr}=0.1 \times I_R$ , $R_L=100\Omega$	—	10	—	ns