

SOD-523 SURFACE MOUNT
Very Small Outline Flat Lead Plastic Package
Low VF Schottky Barrier Diode

Green Product



SOD-523 Flat Lead

ELECTRICAL SYMBOL



Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Repetitive Peak Reverse Voltage	40	V
T_J	Operating Junction Temperature	+125	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
$I_{F(AV)}$	Average Forward Rectified Current	1	A
I_{FSM}	Forward Surge Current @2mS	6	A

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- § Low Forward Voltage
- § Low Power Consumption Applications
- § Surface Device Type Mounting
- § RoHS Compliant
- § Green EMC
- § Matte Tin(Sn) Lead Finish
- § Band Indicates Cathode
- § Unit Weight: approx. 0.002g

DEVICE MARKING CODE:

Device Type	Device Marking
B5819WT	KX

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=0.5\text{mA}$	40		Volts
I_R	Reverse Leakage Current	$V_R=40\text{V}$		100	μA
V_F	Forward Voltage	$I_F=0.3\text{A}$		0.5	Volts
		$I_F=1\text{A}$		0.8	

Flat Lead SOD-523 Package Outline

