

## 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

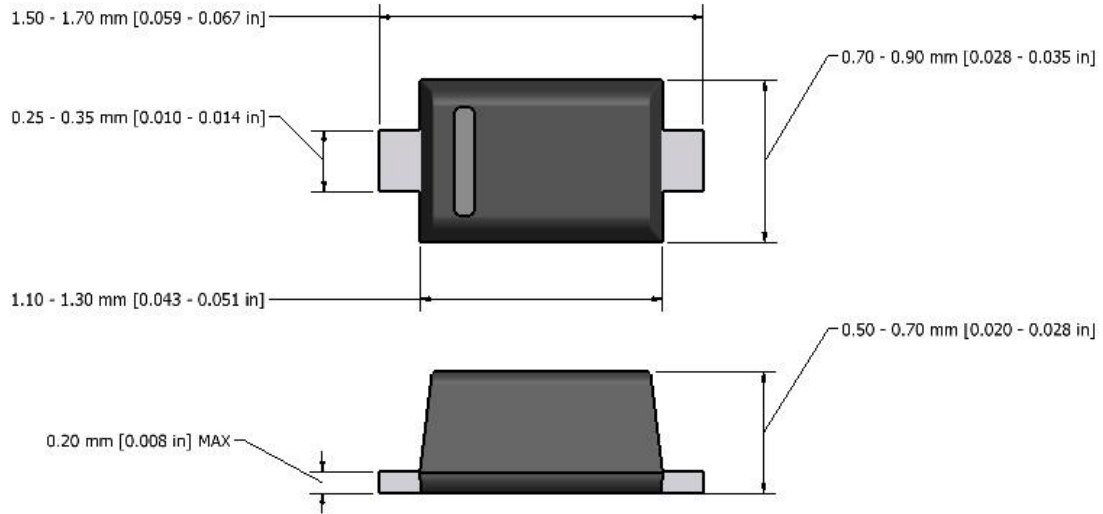
**DEVICE MARKING CODE:**

Device Type	Device Marking
MSK4010	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	$\mu\text{A}$
$V_F$	Forward Voltage	$I_F=0.3\text{A}$		0.5	Volts
		$I_F=1\text{A}$		0.8	

**Flat Lead SOD-523 Package Outline**



**NOTICE**

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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