

### Surface Mount Schottky Barrier Diode

**(Pb)** Lead(Pb)-Free

#### Features:

- \*High Reliability
- \*Low Voltage
- \*Small Surface Mounting Type

#### Mechanical Data:

- \*Case : Molded Plastic
- \*Terminals : Solderable per MIL-STD-202, Method 208
- \*Polarity : See Diagrams Below
- \*Weight : 0.008 grams (approx.)
- \*Mounting Position : Any

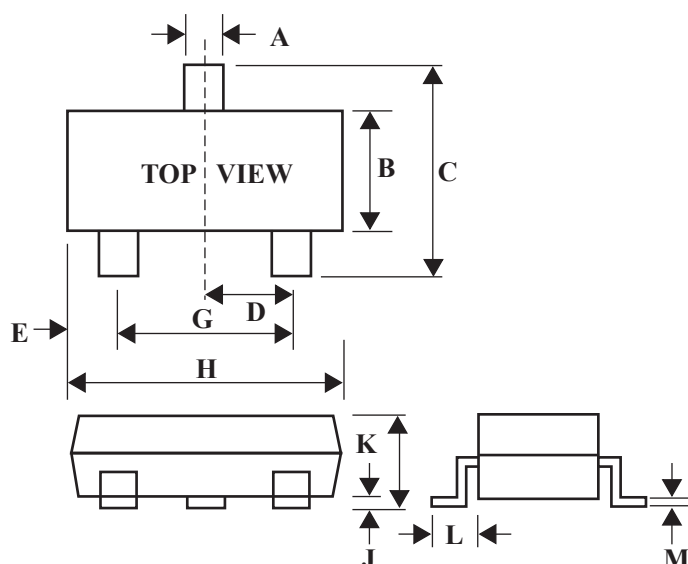
**SCHOTTKY BARRIER  
RECTIFIERS  
100mAMPERES  
40VOLTS**



**SOT-23**

### SOT-23 Outline Dimensions

Unit:mm



Dim	Min	Max
A	0.35	0.51
B	1.19	1.40
C	2.10	3.00
D	0.85	1.05
E	0.46	1.00
G	1.70	2.10
H	2.70	3.10
J	0.01	0.13
K	0.89	1.10
L	0.30	0.61
M	0.076	0.25


**Maximum Ratings** ( $T_J=25^{\circ}\text{C}$  Unless otherwise noted)

Characteristic	Symbol	Limits	Unit
Peak Reverse Voltage	$V_{RM}$	40	Volts
DC Reverse Voltage	$V_R$	40	Volts
Mean Rectifying Current	$I_o$	0.1	A
Peak Forward Surge Current <sup>(2)</sup>	$I_{FSM}$	1.0	A
Operating Junction Temperature Range	$T_J$	125	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	-40 to +125	$^{\circ}\text{C}$


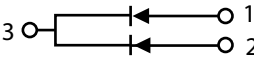
**Electrical Characteristics** ( $T_A=25^{\circ}\text{C}$  Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage( $I_F=100\text{mA}$ )	$V_{F1}$	-	-	0.55	Volts
Forward Voltage( $I_F=10\text{mA}$ )	$V_{F2}$	-	-	0.34	Volts
Reverse Current( $V_F=10\text{V}$ )	$I_R$	-	-	30	$\mu\text{A}$
Capacitance Between Terminals ( $V_R=10\text{V}$ , $f=1\text{MHz}$ )	$C_T$	-	6.0	-	pF

NOTE:

2.60HE for 1 

**Device Marking**

Item	Marking	Equivalent Circuit diagram
WSD421	LV3	
WSD425	KL3	

## Electrical Characteristic Curves ( $T_a=25^\circ\text{C}$ )

