
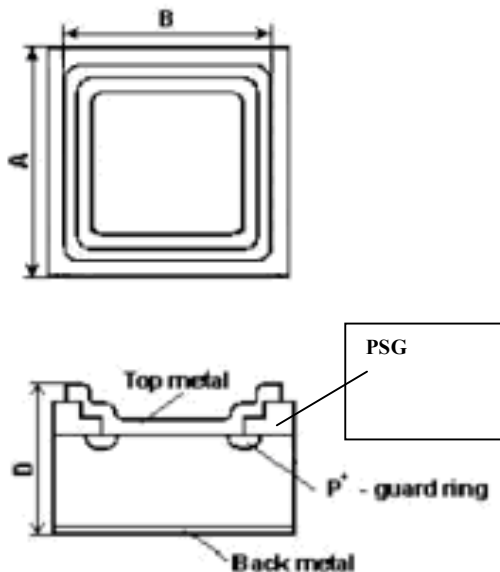


# SCHOTTKY DIODES. KDS-03040H

## PRELIMINARY

Aug.2012

 VSP-MIKRON	<b>3A/40V. Die Size-60mil.</b>			
Electrical Characteristics	Symbol	Unit	Spec. limit	Die Sort
Breakdown Voltage @ $I_R=10\text{mA}$	$V_B$	V	40	45
Average Rectified Forward Current	$I_{F(AV)}$	A	3,0	-
DC Forward Voltage @ $25^\circ\text{C}$ , $I_F=3,0\text{A}$	$V_F$	V	0,42	0,40
Maximum Reverse Current  @ $25^\circ\text{C}$ , $V_R=45\text{V}$ @ $25^\circ\text{C}$ , $V_R=40\text{V}$ @ $100^\circ\text{C}$ , $V_R=40\text{V}$	$I_R$	MA	- 0,70 50,0	0,70 0,50 45,0
Peak Forward Surge Current 8,3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	$I_{FSM}$	A	90	
Peak Repetitive Reverse Surge Current @ $2,0\mu\text{s}$ , $f=1\text{kHz}$ ., $T_J<150^\circ\text{C}$ .	$I_{RRM}$	A	2,0	
Electrostatic Discharge Voltage. JEDEC Method. ESD HBM. Contact.	ESD	kV	$\pm 8$ (contact)	
Voltage Rate of Change	$dV/dt$	$\text{V}/\mu\text{S}$	10.000	
Operating Junction Temperature	$T_J$	$^\circ\text{C}$	125	



DIM	ITEM	$\mu\text{m}$
$A_x$ $A_y$	Die Size	1520 1520
$B_x$ $B_y$	Top Metal Size	1380 1380
D	Thickness	300max.
Scribe line Width		80

*Top metal:* a) **Al** – for Wire Bonding;  
b) **Al-Ni-Ag** – for Soldering.  
*Backside metal:* **Ti-Ni-Ag**.