

# SCHOTTKY DIODES KDN-05040.



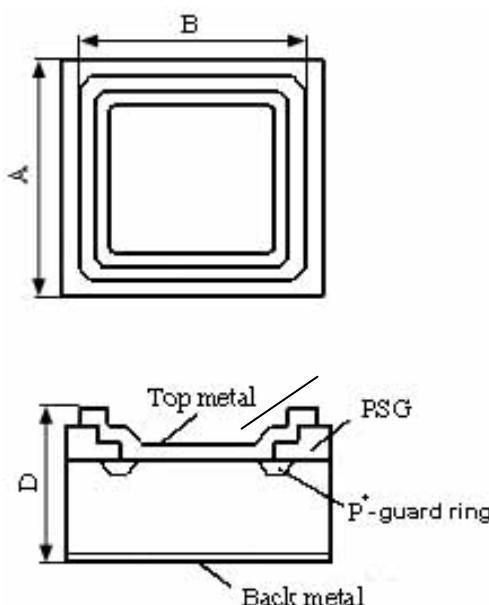
Rev.1. Feb. 2010



**VSP-MIKRON**

**5A/40V. Die Size-65mil.**

Electrical Characteristics	Symbol	Unit	Spec. limit	Die Sort
Breakdown Voltage @ $I_R=10\text{mA}$	$V_{BR}$	V	40	45
Average Rectified Forward Current	$I_{F(AV)}$	A	5,0	-
DC Forward Voltage @ $25^\circ\text{C}$ , $I_F=5,0\text{A}$	$V_F$	V	0,53	0,51
Maximum Reverse Current @ $25^\circ\text{C}$ , $V_R=45\text{V}$ $25^\circ\text{C}$ , $V_R=40\text{V}$ $125^\circ\text{C}$ , $V_R=40\text{V}$	$I_R$	mA	- 0,100 50,0	0,100 0,080 45,0
Peak Forward Surge Current 8,3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	$I_{FSM}$	A	110	-
Peak Repetitive Reverse Surge Current @ $2,0\mu\text{s}$ , $f=1\text{kHz.}$ , $T_J<150^\circ\text{C.}$	$I_{RRM}$	A	2,5	
Electrostatic Discharge Voltage. JEDEC Method. ESD HBM. Contact.	ESD	kV	$\pm 8$ (contact)	
Voltage Rate of Change	$dV/dt$	V/ $\mu\text{S}$	10.000	
Operating Junction Temperature	$T_J$	$^\circ\text{C}$	150	



DIM	ITEM	$\mu\text{m}$
$A_x$	Wafer Form Die Size	1650
$A_y$		1650
$B_x$	Top Metal Size	1510
$B_y$		1510
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.