
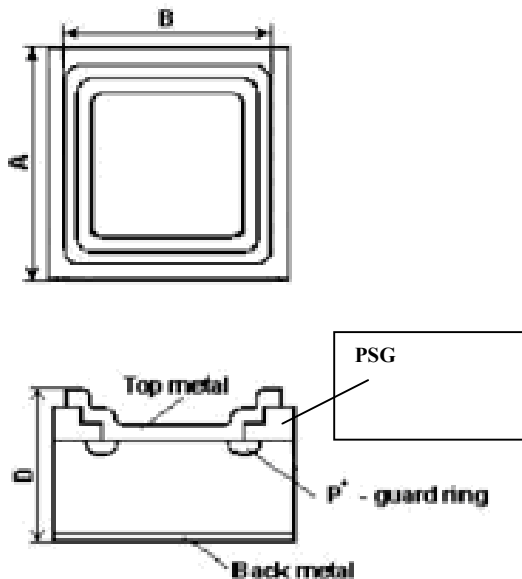


**SCHOTTKY DIODES. KDS- 05040M.**  
PRELIMINARY.



Nov. 2011

 <b>VSP-MIKRON</b>		<b>5A/40V. Die Size-80mil.</b>		
Electrical Characteristics	Symbol	Unit	Spec. limit	Die Sort
Breakdown Voltage @ $I_R=10mA$	$V_B$	V	40	45
Average Rectified Forward Current	$I_{F(AV)}$	A	5,0	-
DC Forward Voltage @ 25°C, $I_F=5,0A$	$V_F$	V	0,40	0,38
Maximum Reverse Current @ 25°C, $V_R=45V$ 25°C, $V_R=40V$ 100°C, $V_R=40V$	$I_R$	MA	- 1,5 100,0	1,5 1,0 80,0
Peak Forward Surge Current 8,3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	$I_{FSM}$	A	135	-
Peak Repetitive Reverse Surge Current @2,0µs, $f=1kHz.$ , $T_J<150°C.$	$I_{RRM}$	A	3,5	
Electrostatic Discharge Voltage. JEDEC Method. ESD HBM. Contact.	ESD	kV	±8 (contact)	
Voltage Rate of Change	dV/dt	V/µS	10.000	
Operating Junction Temperature	$T_J$	°C	125	



DIM	ITEM	µm
$A_x$ $A_y$	Die Size	2030 2030
$B_x$ $B_y$	Top Metal Size	1890 1890
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**.