
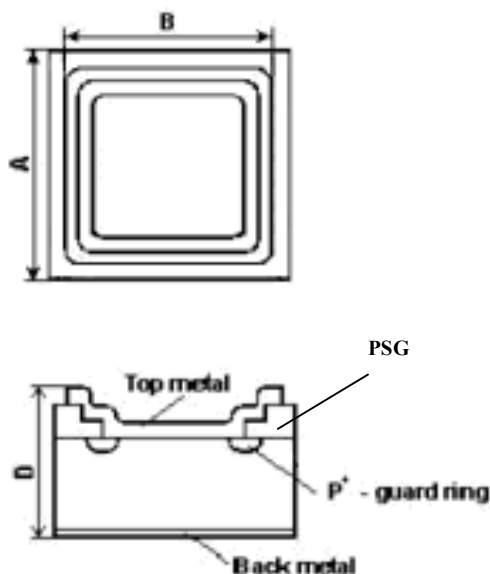


SCHOTTKY DIODES. KDS-03040F. PRELIMINARY

May. 2013.

 VSP-MIKRON	3A/40V. Die Size-51mil.			
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	3,0	-
DC Forward Voltage @ 25°C, $I_F=3,0A$	V_F	V	0,45	0,43
Maximum Reverse Current @ 25°C, $V_R=45V$ @25°C, $V_R=40V$ @100°C, $V_R=40V$	I_R	MA	- 0,70 50,0	0,70 0,50 40,0
Peak Forward Surge Current 8,3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}	A	60	-
Peak Repetitive Reverse Surge Current @2,0µs, f=1kHz., $T_J<150°C$.	I_{RRM}	A	2,0	
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	1300 1300
B_x B_y	Top Metal Size	1112 1112
D	Thickness	250max.
Scribe line Width		80

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

Backside metal: **Ti-Ni-Ag**.