
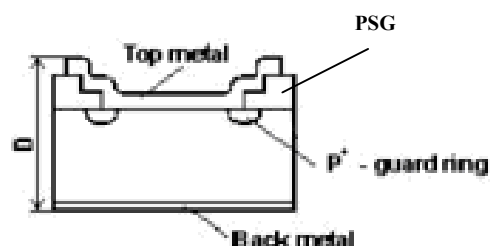
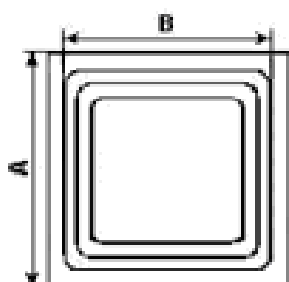


SCHOTTKY DIODES. KDS- 01045D. PRELIMINARY



Apr.2013

 VSP-MIKRON	1A/45V. Die Size-39mil.			
Electrical Characteristics	Symbol	Unit	Spec. limit	Die Sort
Breakdown Voltage @ $I_R=10\text{mA}$	V_B	V	45	47
Average Rectified Forward Current	$I_{F(AV)}$	A	1,0	-
DC Forward Voltage @ 25°C , $I_F=1,0\text{A}$	V_F	V	0,4	0,38
Maximum Reverse Current @ 25°C , $V_R=47\text{V}$ @ 25°C , $V_R=45\text{V}$ @ 100°C , $V_R=45\text{V}$	I_R	MA	- 0,50 20,0	0,50 0,40 15,0
Peak Forward Surge Current 8,3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}	A	45	-
Peak Repetitive Reverse Surge Current @ $2,0\mu\text{s}$, $f=1\text{kHz}$., $T_J<150^\circ\text{C}$.	I_{RRM}	A	1,0	
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	$^\circ\text{C}$	150	



DIM	ITEM	μm
A_x A_y	Die Size	1000 1000
B_x B_y	Top Metal Size	860 860
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**.