

SCHOTTKY DIODES KDN-15040A.
PRELIMINARY



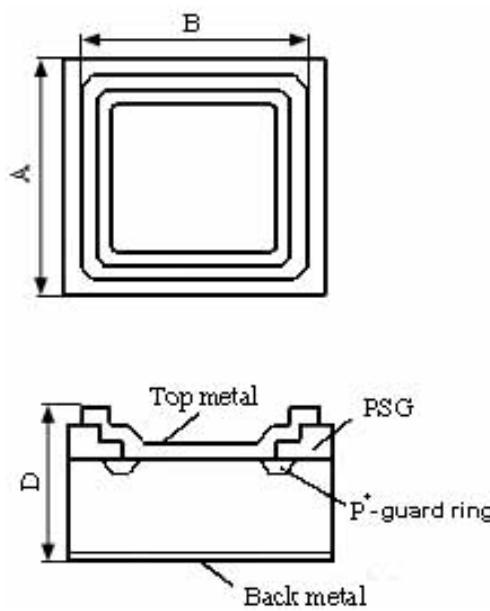
Rev.1. Feb. 2010



VSP-MIKRON

15A/40V. Die Size-115mil.

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	15,0	-
DC Forward Voltage @ 25°C , $I_F=15,0\text{A}$	V_F	V	0,54	0,52 0,50 - typ.
Maximum Reverse Current @ 25°C , $V_R=45\text{V}$ 25°C , $V_R=40\text{V}$ 125°C , $V_R=40\text{V}$	I_R	mA	- 0,30 180,0	0,40 0,30 170,0
Peak Forward Surge Current 8,3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}	A	200	-
Peak Repetitive Reverse Surge Current @ $2,0\mu\text{s}$, $f=1\text{kHz.}$, $T_J<150^\circ\text{C.}$	I_{RRM}	A	4,5	
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	150	



DIM	ITEM	µm
A_x A_y	Wafer Form Die Size	2920 2920
B_x B_y	Top Metal Size	2780 2780
D	Thickness	350max.
	Scribe line Width	80

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

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