
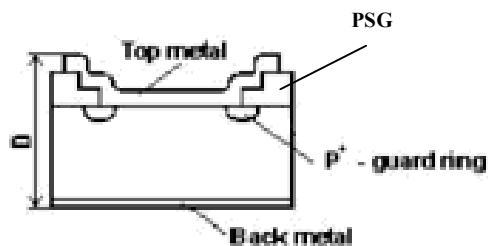
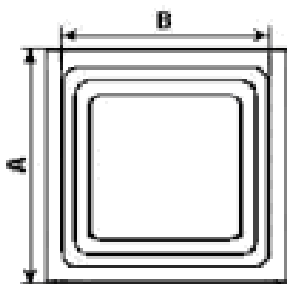


SCHOTTKY DIODES. KDS-10040Q.

PRELIMINARY.

July.2011

 VSP-MIKRON	10A/40V. Die Size-106mil.			
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	10,0	-
DC Forward Voltage @ 25°C, $I_F=10,0A$	V_F	V	0,44	0,42
Maximum Reverse Current @ 25°C, $V_R=45V$ 25°C, $V_R=40V$ 100°C, $V_R=40V$	I_R	MA	- 2,0 120,0	2,0 1,5 100,0
Peak Forward Surge Current 8,3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}	A	180	-
Peak Repetitive Reverse Surge Current @2,0µs, f=1kHz., $T_J<125°C.$	I_{RRM}	A	4,0	
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	2700 2700
B_x B_y	Top Metal Size	2560 2560
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**.