

# FRED KD-0560 UF(Rev.4) .



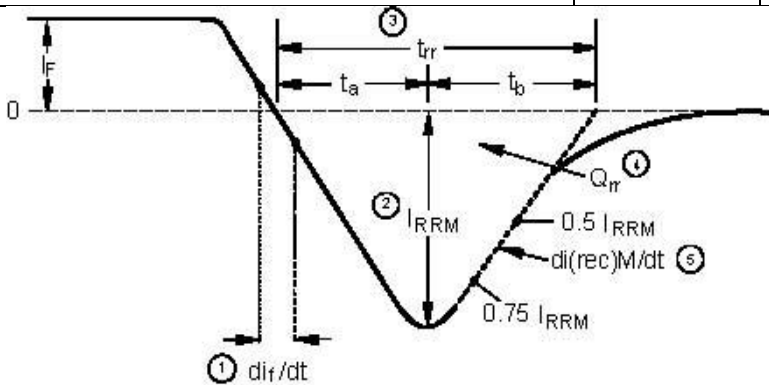
Rev.4.May . 2011



**VSP-MIKRON**

**5A/600V. Die Size-68\*68mil.**

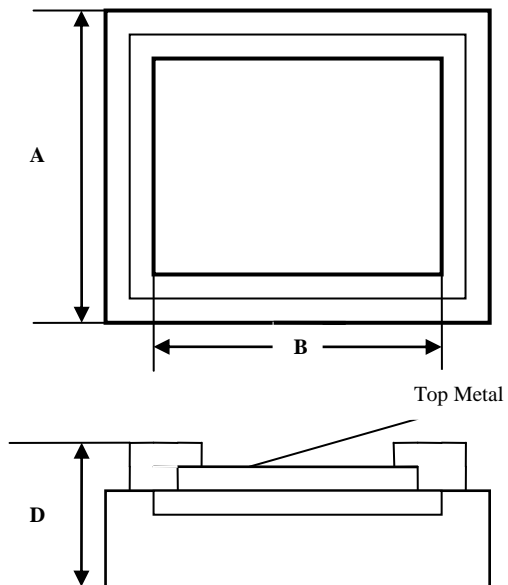
Electrical Characteristics	Symbol	Unit	Spec. limit	Die Sort
Breakdown Voltage @ $I_R=0,10mA$	$V_B$	V	600	620
Average Rectified Forward Current	$I_{F(AV)}$	A	5,0	-
DC Forward Voltage @ $25^{\circ}C, I_F=5,0A$	$V_F$	V	1,50	1,4
Maximum Reverse Current @ $25^{\circ}C, V_R=600V$ @ $125^{\circ}C, V_R=600V$	$I_R$	MA	0,010 0,500	0,008 0,450
Reverse Recovery Time, $I_F=1A, V_R=30V, di_F/dt=100A/uS.$	$t_{rr}$	nS	50	45
Operating Junction Temperature	$T_J$	$^{\circ}C$	175	



- $di_F/dt$  - Rate of change of current through zero crossing
- $I_{RRM}$  - Peak reverse recovery current
- $t_{rr}$  - Reverse recovery time measured from zero crossing point of negative going  $I_F$  to point where a line passing through  $0.75 I_{RRM}$  and  $0.50 I_{RRM}$  extrapolated to zero current
- $Q_{rr}$  - Area under curve defined by  $t_{rr}$  and  $I_{RRM}$   

$$Q_{rr} = \frac{t_{rr} \times I_{RRM}}{2}$$
- $di_{(rec)M}/dt$  - Peak rate of change of current during  $t_b$  portion of  $t_{rr}$

DIM	ITEM	$\mu m$
$A_x$ $A_y$	Die Size	1720 1720
D	Thickness	350max.
Scribe line Width		60



*Top metal: **Al** – for Wi*

*Backside metal: **Ti-Ni-Ag** – for Soldering.*

[www.vsp-mikron.com](http://www.vsp-mikron.com)