



VSP-MIKRON

V_{RRM}=2500VI_F =100A

Diode-Die

KD100250F

Die Size-8.3 x 10.8 0MM.

Passivation : Silicon Oxide

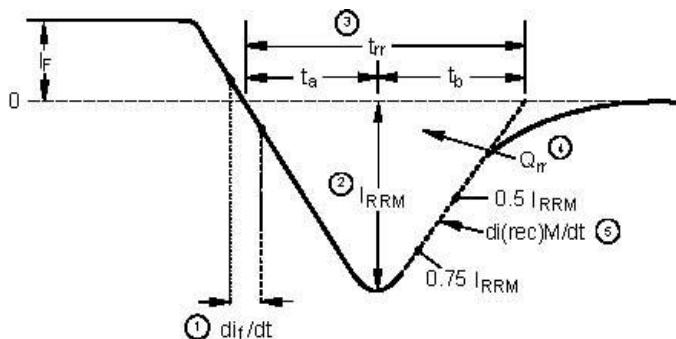
Maximum rated values

Parameter	Symbol	Unit	min	max
Repetitive peak reverse voltage	V _{RRM}	V	-	2500
Continuous forward current	I _F	A	-	100
Repetitive peak forward current*	I _{FRM}	A	-	200
Junction temperature	T _{vj}	°C	-	150

*Limited by T_{vj} max

Diode Characteristics values

Parameter	Symbol	Conditions	min	typ	max	Unit
Continuous forward voltage	V _F	I _F =100A, T _{vj} = 25°C		2.4	2.45	V
Continuous reverse current	I _R	V _R =1200V $\frac{T_{vj}= 25^{\circ}C}{T_{vj}= 125^{\circ}C}$		5	100	uA
Peak reverse recovery current	I _{RRM}	I _F =50A, V _R =700V, dI _F /dt=200A/uS, T _{vj} = 25°C		уточняется		A
Recovered charge	Q _{rr}			уточняется		μC
Reverse Recovery Time	t _{rr}			уточняется		nS
Reverse Recovery Time	t _{rr}	I _F =1A, V _R =30V, dI _F /dt=200A/uS.		100	150	nS

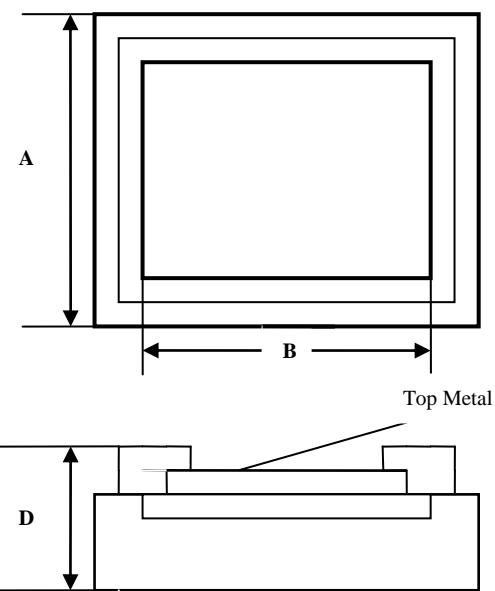


1. di/dt - Rate of change of current through zero crossing

4. Q_{rr} - Area under curve defined by t_{rr} and I_{RRM}2. I_{RRM} - Peak reverse recovery current

$$Q_{rr} = \frac{t_{rr} \times I_{RRM}}{2}$$

3. 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 current5. di_{(rec)M}/dt - Peak rate of change of current during t_b portion of t_{rr}



DIM	ITEM	μm
A_x A_y	Die Size	10800 8300
D	Thickness	560max.
Scribe line Width		60

Top metal: Al – for Wire Bonding.

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