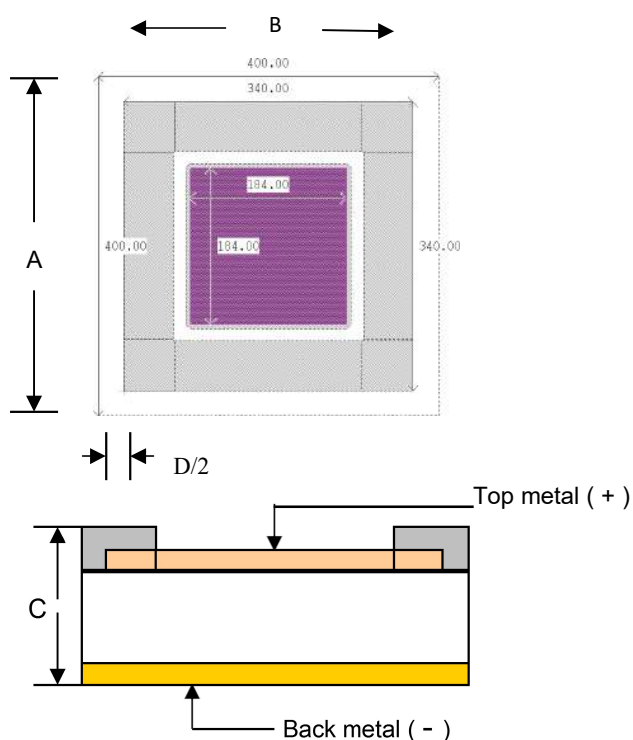


CRD Current Regulative Diode (Preliminary)

CRD supplies a constant current, under a specified range of power supply voltage and/or load impedance fluctuation, to an electric circuit, which makes circuit design more efficient, cost-effective and simpler.



Item	Dimensions	
	um	mil
Die Size (A)	400	15.7
Die Size (B)	340	13.4
Top Metal Pad size	184	7.24
Wafer Thickness (C)	200+/-15	8+/-0.55
Scribe Line Width (D)	60	2.36
Other Information		
Wafer Size	6"	
Gross Die	101000	
Back Side Metal	TiNiAg 1K/3K/10KÅ	

Specifications (Electrical Characteristics @TA=+25°C)

Wafer Part No.	Pinch-Off Current I_P @ $V=20V$ (Note1)		Knee Voltage V_K	Max. Voltage Loading V_B max	Temperature Coefficient (Note2)	Top Metal
	min	max	$V_K @ 0.8I_{Pmin}$	$V_B @ 1.1I_{Pmax}$	Range	
	[mA]	[mA]	Max [V]	[V]	[%/°C]	
SPC16S1P1DL	0.88	1.32	1.7	100	-0.10 ~ -0.37	Al
SPC16S1P5DL	1.2	1.8	2.0	100	-0.13 ~ -0.40	Al
SPC16S2P0DL	1.6	2.4	2.3	100	-0.15 ~ -0.42	Al
SPC16S2P5DL	2.0	3.0	2.7	100	-0.18 ~ -0.45	Al
SPC16S3P0DL	2.4	3.6	3.0	100	-0.19 ~ -0.46	Al

Wafer Part No.	Pinch-Off Current I_P @ $V=20V$ (Note1)		Knee Voltage V_K	Max. Voltage Loading V_B max	Temperature Coefficient (Note2)	Top Metal
	min	max	$V_K @ 0.8I_{Pmin}$	$V_B @ 1.1I_{Pmax}$	Range	
	[mA]	[mA]	Max [V]	[V]	[%/°C]	
SPC16S4P0DL	3.2	4.8	3.7	100	-0.22 ~ -0.50	Al
SPC16S5P0DL	4.0	6.0	4.2	100	-0.25 ~ -0.53	Al
SPC16S6P0DL	4.8	7.2	4.5	100	-0.25 ~ -0.53	Al
SPC16S8P0DL	6.4	9.6	3.1	80	-0.25 ~ -0.45	Al
SPC16S010DL	8.0	12	3.5	80	-0.25 ~ -0.45	Al
SPC16S012DL	9.6	14.4	3.8	80	-0.25 ~ -0.45	Al
SPC16S015DL	12	18	4.3	80	-0.25 ~ -0.45	Al
SPC16S018DL	14.4	21.6	4.7	80	-0.25 ~ -0.45	Al
SPC16S020DL	16	24	5.3	80	-0.25 ~ -0.45	Al
SPC16S025DL	20	30	5.7	80	-0.25 ~ -0.45	Al

Note :

* 1. Pulsed Methode : Pulse Width (mS) = 20mS

* 2. Temperature Coefficient is measured between +25°C and +50°C by wafer .

Junction & Storage Temp : -55°C ~ +150°C