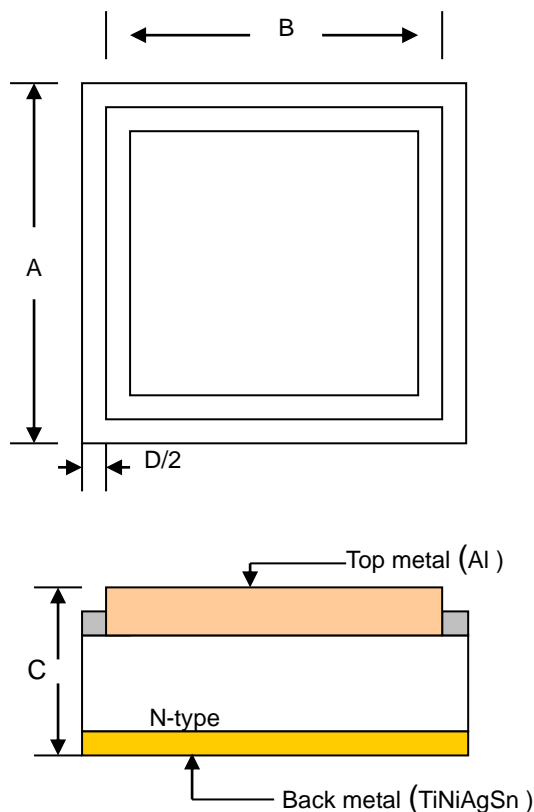


Planar TVS (Preliminary)



Item	Dimensions	
	um	mil
Die Size (A)	330	13.0
Top Metal (Al)	270	10.6
Top Metal Pad size (B)		
Wafer Thickness (C)	150±20	6.0
Scribe Line Width (D)	40	1.57
Other Information		
Top Metal	Al (3um)	
Wafer Size	6"	
Gross Die	147,000	
Back Side Metal	TiNiAgSn	

Absolute Maximum Ratings (Ta=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Air)	V _{ESD}	± 30	KV
ESD per IEC 61000-4-2 (Contact)		± 30	
Operating Junction and Storage Temperature Range	T _j T _{stg}	-55 to +150	°C

Planar TVS (Electrical Characteristics @TA=25°C)

Part Number	Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Reverse Leakage	Max Clamp Voltage 8/20us	Peak Pulse Current 8/20us	Cj
	V _{RWM}	V _{BR}		I _T	I _R @ V _{RWM}	V _c @ I _{pp}	I _{pp}	Cj
		Min[V]	Max[V]	[mA]	[uA]	[V]	[A]	Typ.[pF]
CS13S3P3MS	3.3	5.0	6.0	1.0	10	14.0	15.0	200
CS13S5P0MS	5.0	6.4	7.4	1.0	1.0	18.0	14.0	180
CS13S8P0MS	8.0	8.5	9.8	1.0	1.0	24.0	8.0	120
CS13S012MS	12	13.8	15.8	1.0	1.0	28.6	7.0	60
CS13S015MS	15	17.0	18.8	1.0	1.0	31.8	6.5	56
CS13S018MS	18	20.0	22.2	1.0	1.0	43.0	6.0	52
CS13S024MS	24	27	29.8	1.0	1.0	45.0	4.0	40
CS13S036MS	36	40	44.2	1.0	1.0	75.0	3.0	20