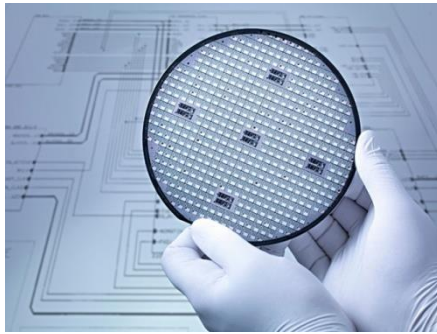


250mil TVS 芯片选型



TVS Diode series

250TVS

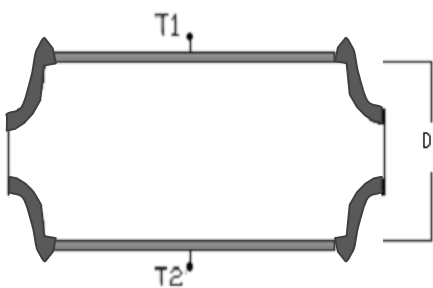
描述

TVS 系列产品是一种专门用来保护敏感电子设备免受雷电或者瞬态电压冲击的器件。

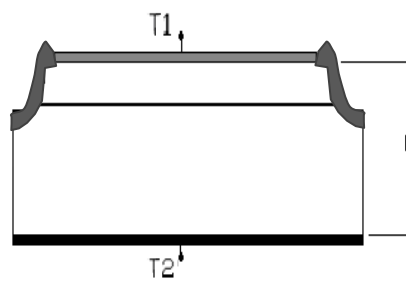
- 低漏电流
- 快速相应速度 (从 0->VBR 响应时间小于 1ps)
- 玻璃钝化结
- 良好的钳位能力
- 承受 6600W 峰值脉冲 (10/1000 μ s)

芯片结构图

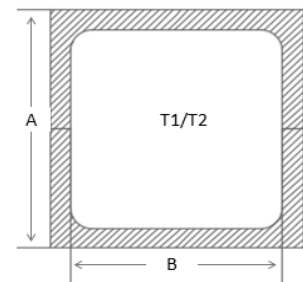
芯片工艺 Wafer tech	台面玻璃钝化工艺	
圆片尺寸 Wafer Size	Φ 5inch	
芯片厚度 Chip Thickness	D=265 \pm 15 μ m(可根据客户要求定制)	
金属 (T1/T2) Metal	正面 Front	TiNiAg
	背面 Back	TiNiAg
芯片尺寸 Chip Size	芯片尺寸(A: μ m) Chip	6350 \pm 50
	电极尺寸(B: μ m) Pad	5639 \pm 25



(图 1: 双向 TVS 外沟槽结构示意图)



(图 2: 单向 TVS 外沟槽结构示意图)



(图 3: 芯片尺寸示意图)

芯片电参数- TVS (VR)

单向	双向	V_{RWM}	$V_{BR} @ I_T$		I_T	$V_C @ I_{pp}$	I_{pp}	$I_R @ V_{RWM}$
		(V)	(V)min	(V)max	(mA)	(V) max	(A) min	(μ A) max
TP0250-N010A1	TP0250-N010C1	10	11.1	12.3	1	17.0	388.2	20
TP0250-N011A1	TP0250-N011C1	11	12.2	13.5	1	18.2	362.6	10
TP0250-N012A1	TP0250-N012C1	12	13.3	14.7	1	19.9	331.7	5
TP0250-N013A1	TP0250-N013C1	13	14.4	15.9	1	21.5	307.0	1.58
TP0250-N014A1	TP0250-N014C1	14	15.6	17.2	1	23.2	284.5	1.58
TP0250-N015A1	TP0250-N015C1	15	16.7	18.5	1	24.4	270.5	1.58
TP0250-N016A1	TP0250-N016C1	16	17.8	19.7	1	26	253.8	1.58
TP0250-N017A1	TP0250-N017C1	17	18.9	20.9	1	27.6	239.1	1.58
TP0250-N018A1	TP0250-N018C1	18	20	22.1	1	29.2	226.0	1.58
TP0250-N020A1	TN0250-N020C3	20	22.2	24.5	1	32.4	203.7	1.58
TP0250-N022A1	TN0250-N022C3	22	24.4	26.9	1	35.5	185.9	1.58
TP0250-N024A1	TN0250-N024C3	24	26.7	29.5	1	38.9	169.7	1.58
TP0250-N026A1	TN0250-N026C3	26	28.9	31.9	1	42.1	156.8	1.58
TP0250-N028A1	TN0250-N028C3	28	31.1	34.4	1	45.4	145.4	1.58
TP0250-N030A1	TN0250-N030C3	30	33.3	36.8	1	48.4	136.4	1.58
TP0250-N033A1	TN0250-N033C3	33	36.7	40.6	1	53.3	123.8	1.58
TP0250-N036A1	TN0250-N036C3	36	40	44.2	1	58.1	113.6	1.58
TP0250-N040A1	TN0250-N040C3	40	44.4	49.1	1	64.5	102.3	1.58
TP0250-N043A1	TN0250-N043C3	43	47.8	52.8	1	69.4	95.1	1.58
TP0250-N045A1	TN0250-N045C3	45	50	55.3	1	72.7	90.8	1.58
TP0250-N048A1	TN0250-N048C3	48	53.3	58.9	1	77.4	85.3	1.58
TP0250-N051A1	TN0250-N051C3	51	56.7	62.7	1	82.4	80.1	1.58