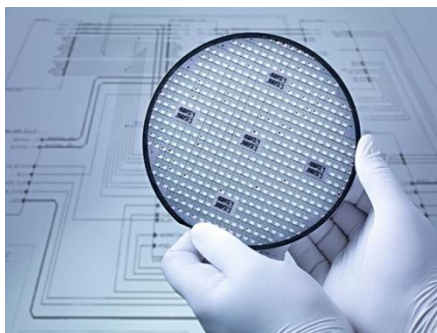


160mil 高可靠性 TVS 芯片选型



TVS Diode series

160 高可靠性 TVS

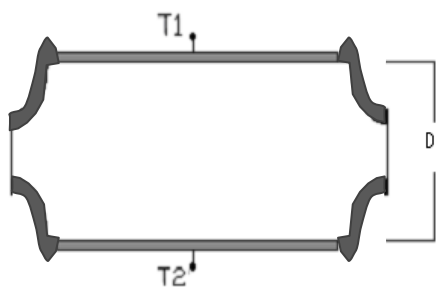
描述

该 TVS 系列产品适用于高可靠性要求的特殊应用环境，例如：车规、高端工控以及高空通讯基站等应用场景。

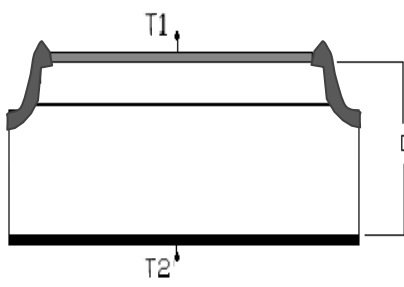
- 低漏电流
- 快速相应速度（从 0->VBR 响应时间小于 1ps）
- 双层保护工艺（电泳玻璃钝化+公司特有保护工艺）
- 良好的钳位能力
- 承受 3000W 峰值脉冲（10/1000μs）
- 符合 AEC-Q101（封装匹配优秀情况下）

芯片结构图

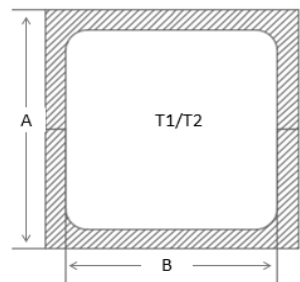
芯片工艺 Wafer tech	电泳玻璃钝化工艺+公司特有保护工艺	
圆片尺寸 Wafer Size	Φ5inch	
芯片厚度 Chip Thickness	D=265±15μm(可根据客户要求定制)	
金属（T1/T2）Metal	正面 Front	TiNiAg
	背面 Back	TiNiAg
芯片尺寸	芯片尺寸(A: μm)	4064±50
	电极尺寸(B: μm)	3637±25



(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-贴片式 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	(μA) max
HP0160-N5V0A2	HP0160-N5V0C1	5	6.4	7	10	9.2	326.1	500
HP0160-N6V0A2	HP0160-N6V0C1	6	6.67	7.37	10	10.3	291.3	500
HP0160-N6V5A2	HP0160-N6V5C1	6.5	7.22	7.98	10	11.2	267.9	100
HP0160-N7V0A2	HP0160-N7V0C1	7	7.8	8.6	10	12	250	50
HP0160-N7V5A2	HP0160-N7V5C1	7.5	8.33	9.21	1	12.9	232.6	50
HP0160-N8V0A2	HP0160-N8V0C1	8	8.89	9.83	1	13.6	220.6	50
HP0160-N8V5A2	HP0160-N8V5C1	8.5	9.44	10.4	1	14.4	208.3	20
HP0160-N9V0A2	HP0160-N9V0C1	9	10	11.1	1	15.4	194.8	10
HP0160-N010A2	HP0160-N010C1	10	11.1	12.3	1	17	176.5	5
HP0160-N011A1	HP0160-N011C1	11	12.2	13.5	1	18.2	164.8	1
HP0160-N012A1	HP0160-N012C1	12	13.3	14.7	1	19.9	150.8	1
HP0160-N013A1	HP0160-N013C1	13	14.4	15.9	1	21.5	139.5	1
HP0160-N014A1	HP0160-N014C1	14	15.6	17.2	1	23.2	129.3	1
HP0160-N015A1	HP0160-N015C1	15	16.7	18.5	1	24.4	123.0	1
HP0160-N016A1	HP0160-N016C1	16	17.8	19.7	1	26	115.4	1
HP0160-N017A1	HP0160-N017C1	17	18.9	20.9	1	27.6	108.7	1
HP0160-N018A1	HP0160-N018C1	18	20	22.1	1	29.2	102.7	1
HN0160-N020A1	HN0160-N020C3	20	22.2	24.5	1	32.4	92.6	1
HN0160-N022A1	HN0160-N022C3	22	24.4	26.9	1	35.5	84.5	1
HN0160-N024A1	HN0160-N024C3	24	26.7	29.5	1	38.9	77.1	1
HN0160-N026A1	HN0160-N026C3	26	28.9	31.9	1	42.1	71.3	1
HN0160-N028A1	HN0160-N028C3	28	31.1	34.4	1	45.4	66.1	1
HN0160-N030A1	HN0160-N030C3	30	33.3	36.8	1	48.4	62	1
HN0160-N033A1	HN0160-N033C3	33	36.7	40.6	1	53.3	56.3	1
HN0160-N036A1	HN0160-N036C3	36	40	44.2	1	58.1	51.6	1
HN0160-N040A1	HN0160-N040C3	40	44.4	49.1	1	64.5	46.5	1
HN0160-N043A1	HN0160-N043C3	43	47.8	52.8	1	69.4	43.2	1
HN0160-N045A1	HN0160-N045C3	45	50	55.3	1	72.7	41.3	1
HN0160-N048A1	HN0160-N048C3	48	53.3	58.9	1	77.4	38.8	1
HN0160-N051A1	HN0160-N051C3	51	56.7	62.7	1	82.4	36.4	1
HN0160-N054A1	HN0160-N054C3	54	60	66.3	1	87.1	34.4	1
HN0160-N058A1	HN0160-N058C3	58	64.4	71.2	1	93.6	32.1	1
HN0160-N060A1	HN0160-N060C3	60	66.7	73.7	1	96.8	31	1
HN0160-N064A1	HN0160-N064C3	64	71.1	78.6	1	103	29.1	1
HN0160-N070A1	HN0160-N070C3	70	77.8	86	1	113	26.5	1
HN0160-N075A1	HN0160-N075C3	75	83.3	92.1	1	121	24.8	1
HN0160-N080A1	HN0160-N080C3	80	88.8	97.6	1	129.6	23.1	1
HN0160-N085A1	HN0160-N085C3	85	94.4	104	1	137	21.9	1