



至晟品质 芯驰未来

ASL24FB 保护方案

晟驰市场部

汇报时间：2022年8月19日

ASL24FB参数



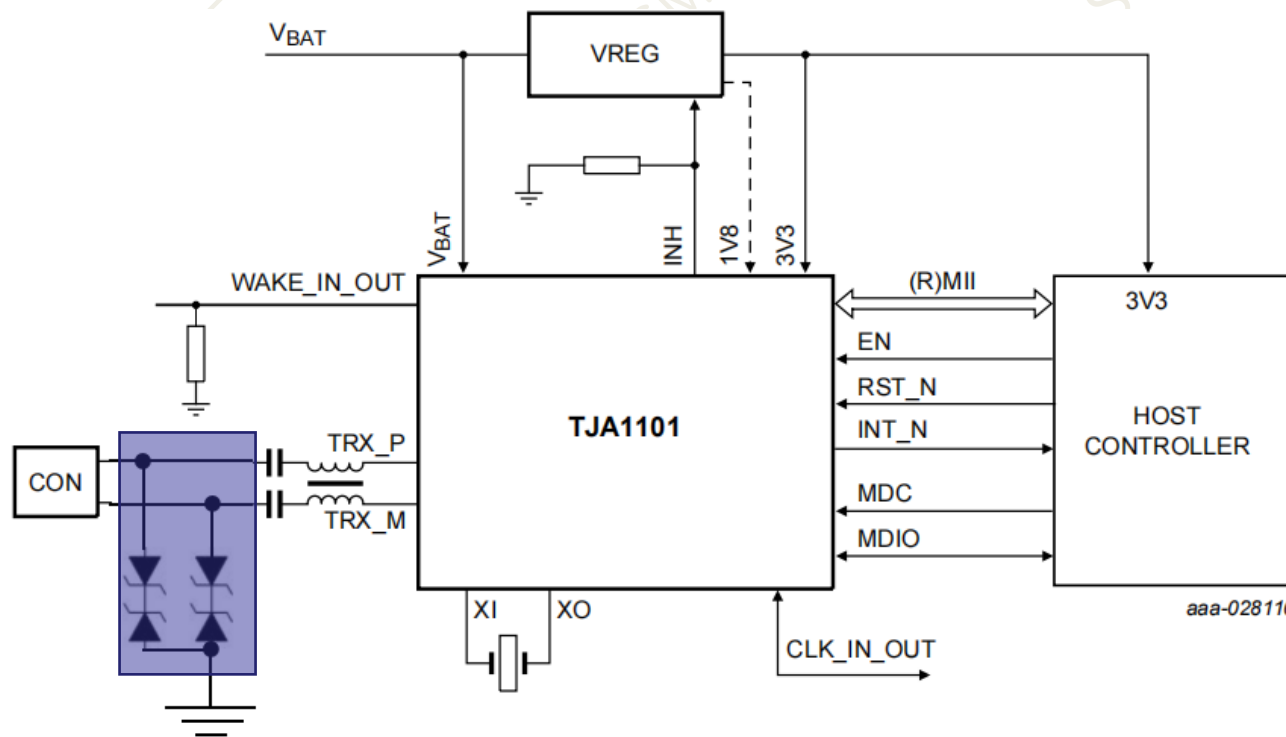
- ◆ IEC 61000-4-2 (ESD)
 - ±10kV Contact Discharge
 - ±15kV Air Discharge
- ◆ IEC 61000-4-4 EFT Protection
 - 40A (5/50ns)
- ◆ Halogen free and RoHS compliant
- ◆ IEC 61000-4-4 EFT Protection
 - 1.5A (8/20us)
- ◆ Transient protection for high-speed data lines
- ◆ Protects one directional I/O lines
- ◆ AEC-Q101 qualified
- ◆ Low leakage current
- ◆ DNF1006-2L
- ◆ ROHS/ Compliant
- ◆ Halogen free

Parameters	Symbol	Min.	Max.	Unit
Peak pulse power (tp=8/20us)@25°C	P _{pk}	-	80	W
Peak pulse current (tp=8/20us)@25°C	I _{pp}	-	1.5	A
ESD (IEC61000-4-2 air discharge) @25°C	V _{ESD}	-	±15	kV
ESD (IEC61000-4-2 contact discharge) @25°C	V _{ESD}	-	±10	kV
Junction temperature	T _J	-	125	°C

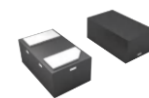
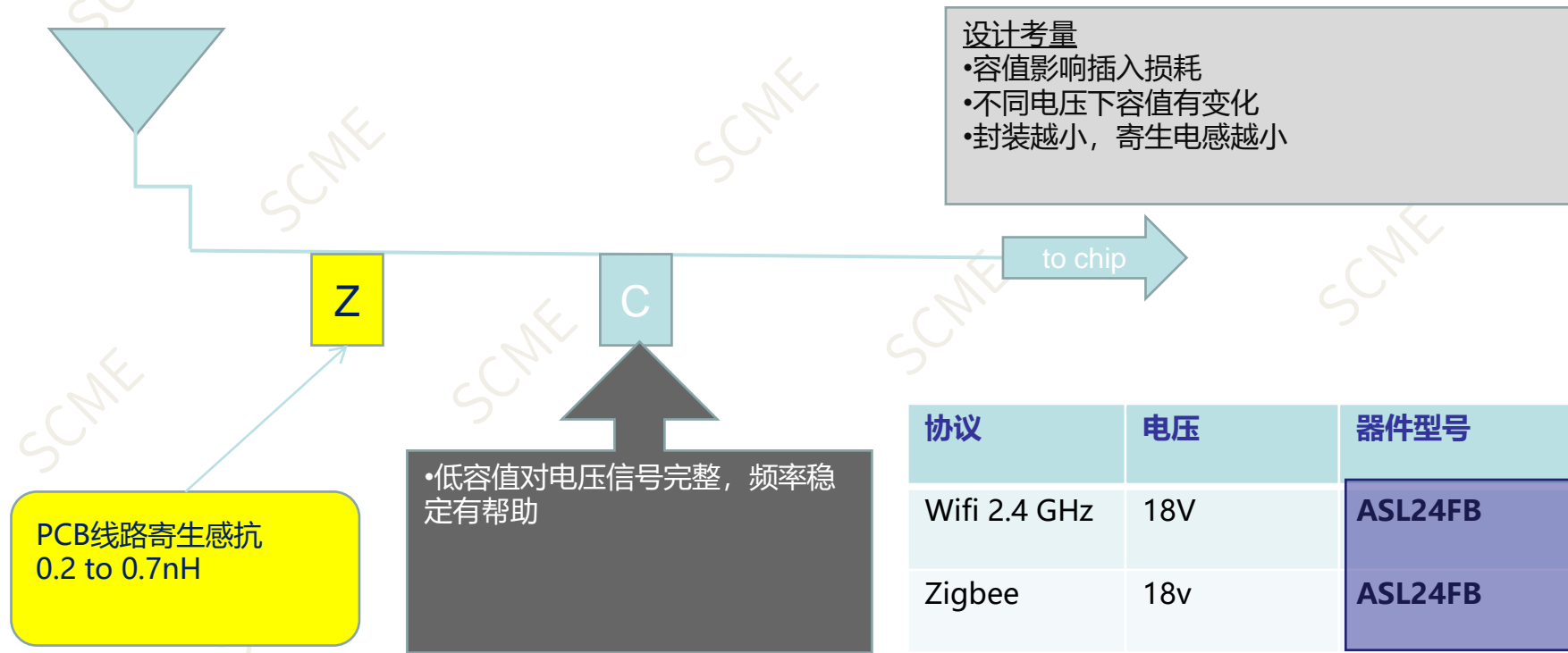
Parameter	Symbol	Conditions	MIN.	Typ.	MAX.	Units
Reverse Stand-off Voltage	V _{RWM}				24	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	26.5			V
Reverse Leakage Current	I _R	V _{RWM} =24V			0.5	uA
Clamping Voltage	V _C	I _{pp} =1A; tp=8/20us		40		V
Clamping Voltage	V _C	I _{pp} =1.5A; tp=8/20us		53		V
Junction Capacitance	C _J	I/O to GND; VR=0V; f=1MHz		0.3		pF

ASL24FB典型应用

两颗ASL24FB用于保护
100BASE-T1 PHY 汽车以太网



ASL24FB典型应用



THANK YOU!

感谢您的观看!



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