

ELECTRICAL CHARACTERISTICS (Tj= 25°C unless otherwise noticed)

L30ESD5V0C3-2

Parameter	Symbol	Conditions	MIn	Тур	Max	Unit
Reverse standoff voltage	VDRM				5	V
Reverse leakage current	IRM	VDRM = 5V			1	uA
Peak pulse Current	lpp	tp = 8/20us			17	Α
Breakdown voltage	VBR	I _R = 1 mA	6.4		7.2	V
Diode capacitance	CJ	V _R = 0 V , f = 1MHz		156	160	pF
Clamping Voltage	VCL	Ipp= 1 A, tp = 8/20us			9.8	V
Clamping Voltage	VCL	Ipp= 15 A, tp = 8/20us			20	V

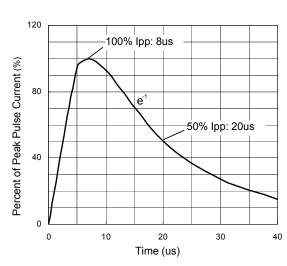
L30ESD12VC3-2

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse standoff voltage	VDRM				12	V
Reverse standoff voltage	IRM	VDRM = 12 V			1	uA
Peak pulse Current	lpp	tp = 8/20us			12	Α
Breakdown voltage	VBR	IR = 1 mA	14.2		15.8	V
Diode capacitance	CJ	VR = 0 V , f = 1MHz		78	100	pF
Clamping Voltage	VCL	Ipp= 1 A, tp = 8/20us			19	V
Clamping Voltage	VcL	I _{pp} = 12 A, tp = 8/20us			25	V

L30ESD24VC3-2

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse standoff voltage	VDRM				24	V
Reverse leakage current	IRM	V _{DRM} = 24V			1	uA
Peak pulse Current	lpp	tp = 8/20us			4	Α
Breakdown voltage	VBR	I _R = 1 mA	26.7		29.6	V
Diode capacitance	CJ	V _R = 0 V , f = 1MHz		30	60	pF
Clamping Voltage	VCL	Ipp= 1 A, tp = 8/20us			36	V
Clamping Voltage	VCL	Ipp= 4 A, tp =8/20us			43	٧





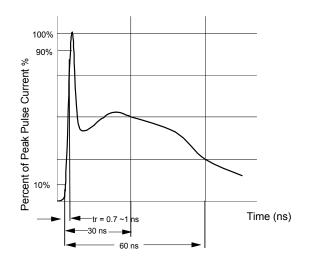
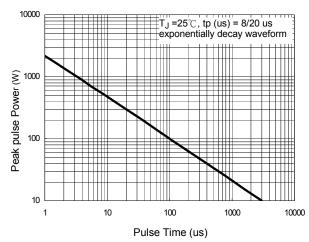


Figure 1. 8/20 us pulse waveform according to IEC 61000-4-5

Figure 2. ESD pulse waveform according to IEC 61000-4-2



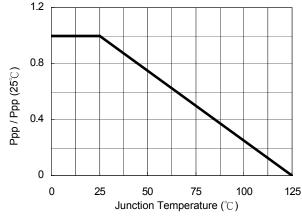
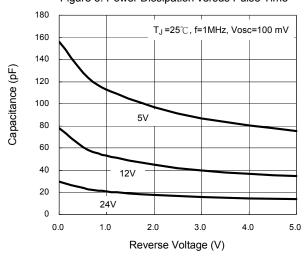


Figure 3. Power Dissipation versus Pulse Time

Figure 4. Peak pulse power versus TJ



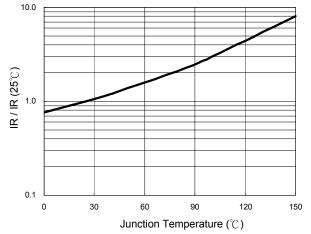
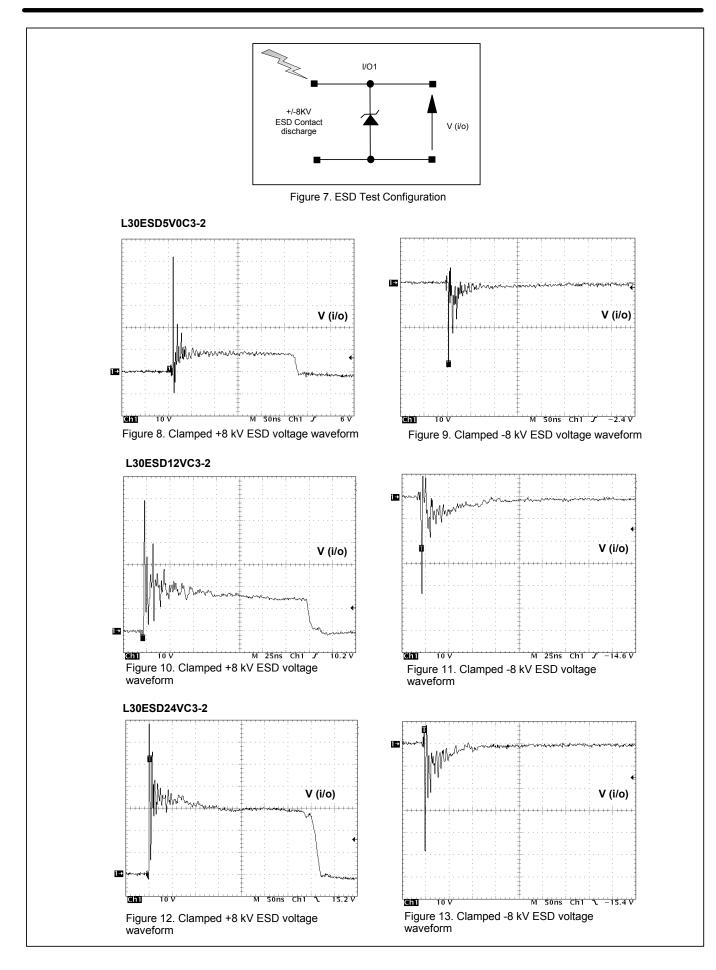


Figure 5. Typical Junction Capactiance

Figure 6. Reverse Leakage Current versus TJ







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