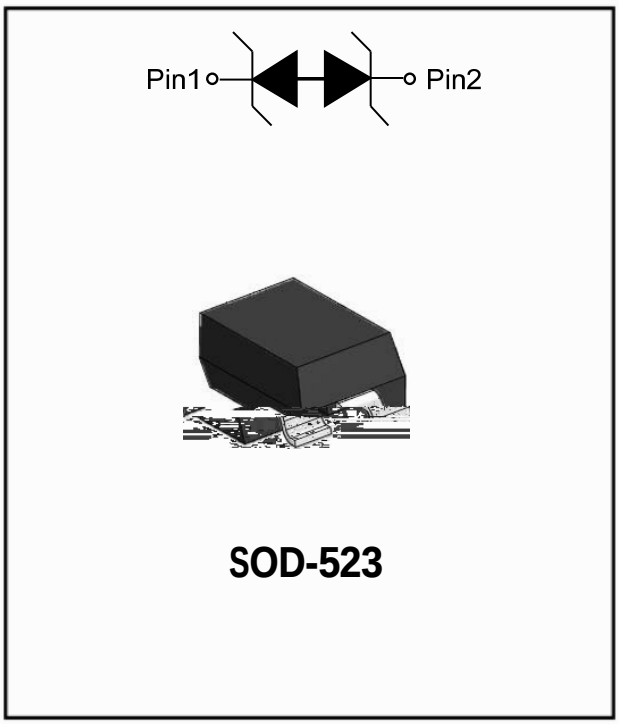
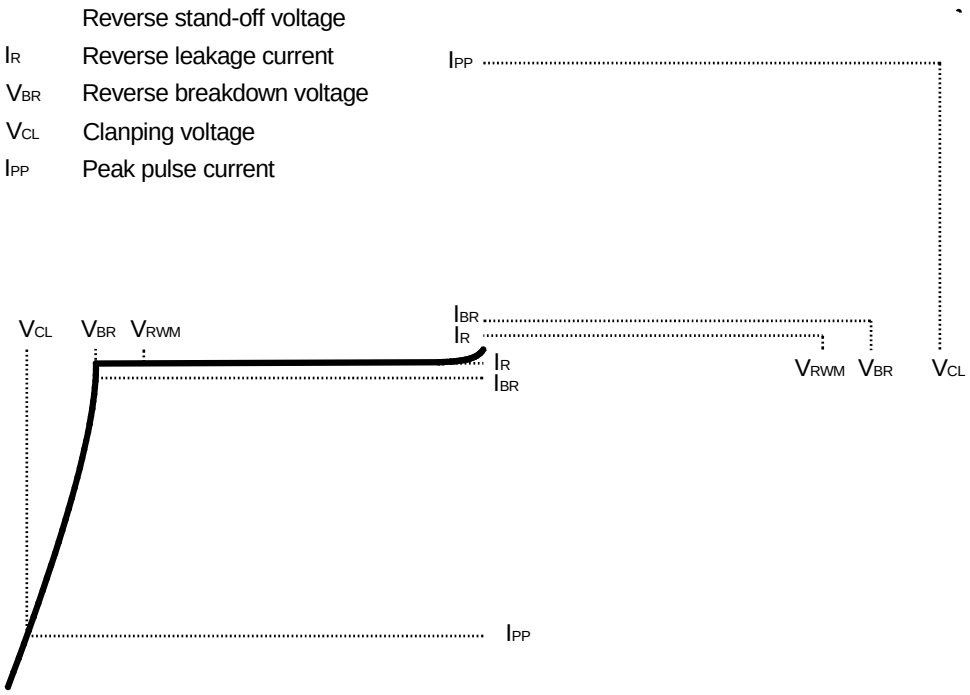
ESD5V0D5BQ



	Reverse stand-off voltage
I_R	Reverse leakage current
V_{BR}	Reverse breakdown voltage
V_{CL}	Clanping voltage
I_{PP}	Peak pulse current



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■Maximum Ratings

PARAMETER	SYMBOL	LIMITS	UNIT
Peak pulse power (t_p = 8/20μs)	P_{pk}	400	W
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	
Junction temperature	T_J	-55~150	℃
Operating temperature	T_{OP}	-55~150	℃
Storage temperature	T_{STG}	-55~150	℃

Notes:

CAUTION: Stresses above those listed in “Absolute Maximum Ratings” may cause permanent damage to the component. This is a stress only rating and operation of the component at these or any other conditions above those indicated in the operational sections of this specification is not implied.

■ESD5V0D5BQ Electrical Characteristics（T_J=25℃）

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse Standoff Voltage	V_{RWM}	V	I_R≤1μA			5.0
Reverse breakdown voltage	V_{BR}	V	I_{BR} = 1mA	6.0		7.8
Reverse leakage current	I_R	μA	V_{RWM} = 5V			1.0
Clamping voltage [1)]	V_{CL}	V	I_{PP} = 1A, t_p = 8/20μs			10
		V	I_{PP} = 10A, t_p = 8/20μs			14.5
		V	I_{PP} = 24A, t_p = 8/20μs			17
Dynamic resistance [2)]	R_{DYN}	Ω	TLP, tp=100ns, I/O to Ground		0.11	
Peak Pulse Current	I_{PP}	A	t_p = 8/20μs			24
Junction capacitance	C_J	pF	V_R = 0V, f = 1MHz		50	100

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(mg)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ESD5V0D5BQ	F2	Approximate 2	8000	80000	320000	7 reel

Fig.1: Non-Repetitive Peak Pulse Power vs. Pulse Time

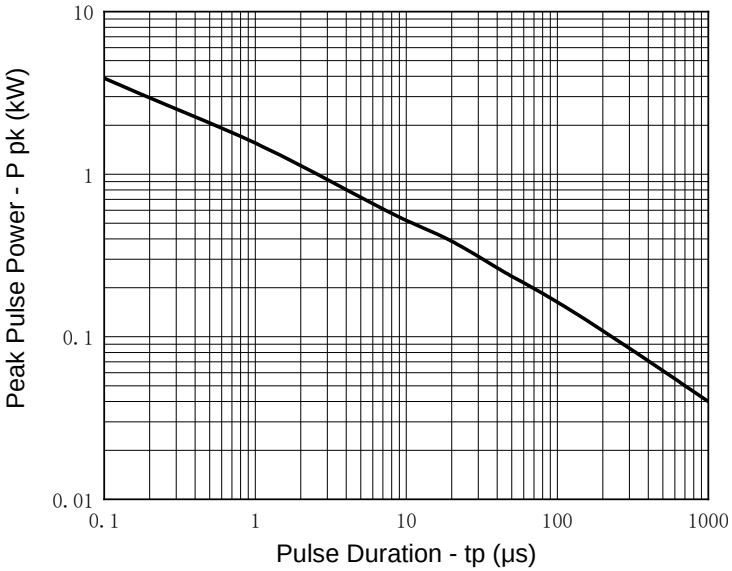
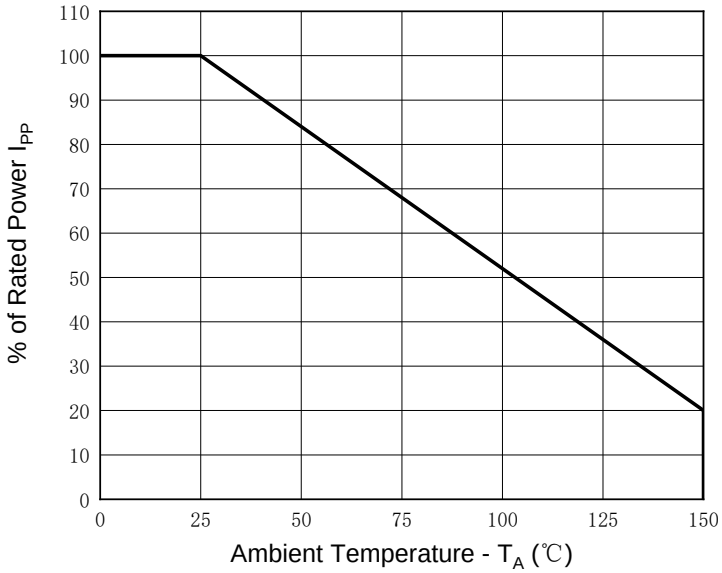
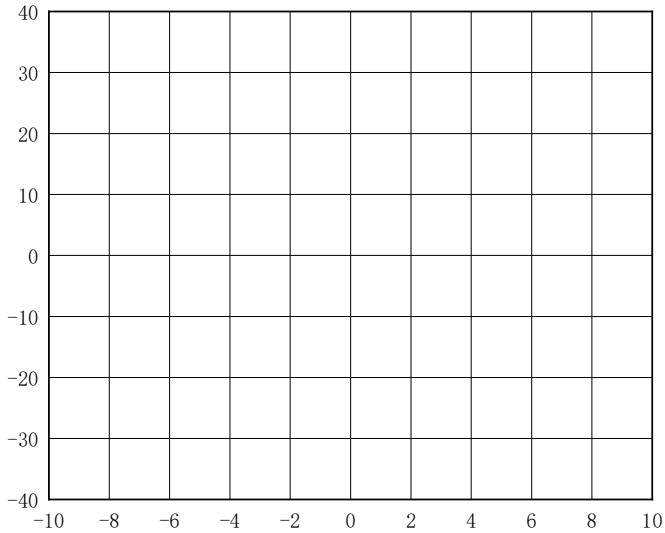
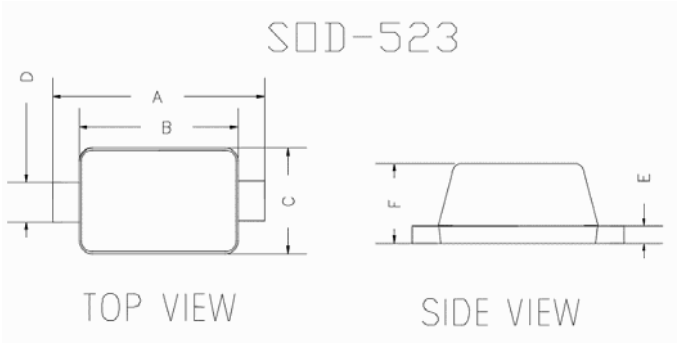


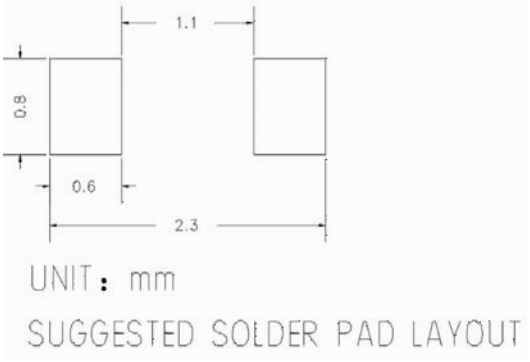
Fig.3: Power Derating Curve





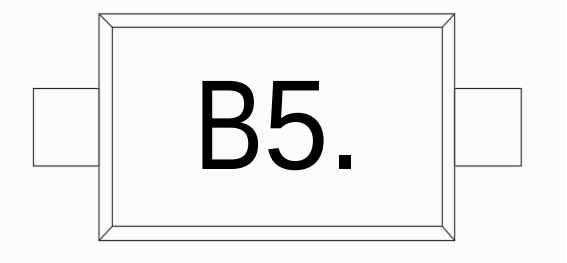
■ Outline Dimensions





DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MN	MAX
A	0.059	0.067	1.500	1.700
B	0.043	0.051	1.100	1.300
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

■ Marking Information



Note:
1. All marking is at middle of the product body
2. All marking is in laser marking
3. B5 is Marking Code
4. Body color: Black

Disclaimer

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