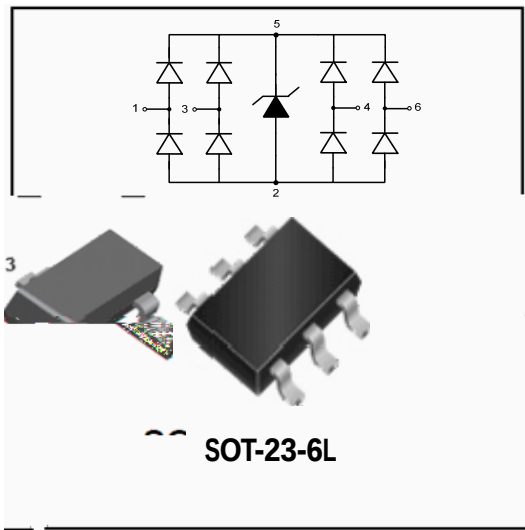
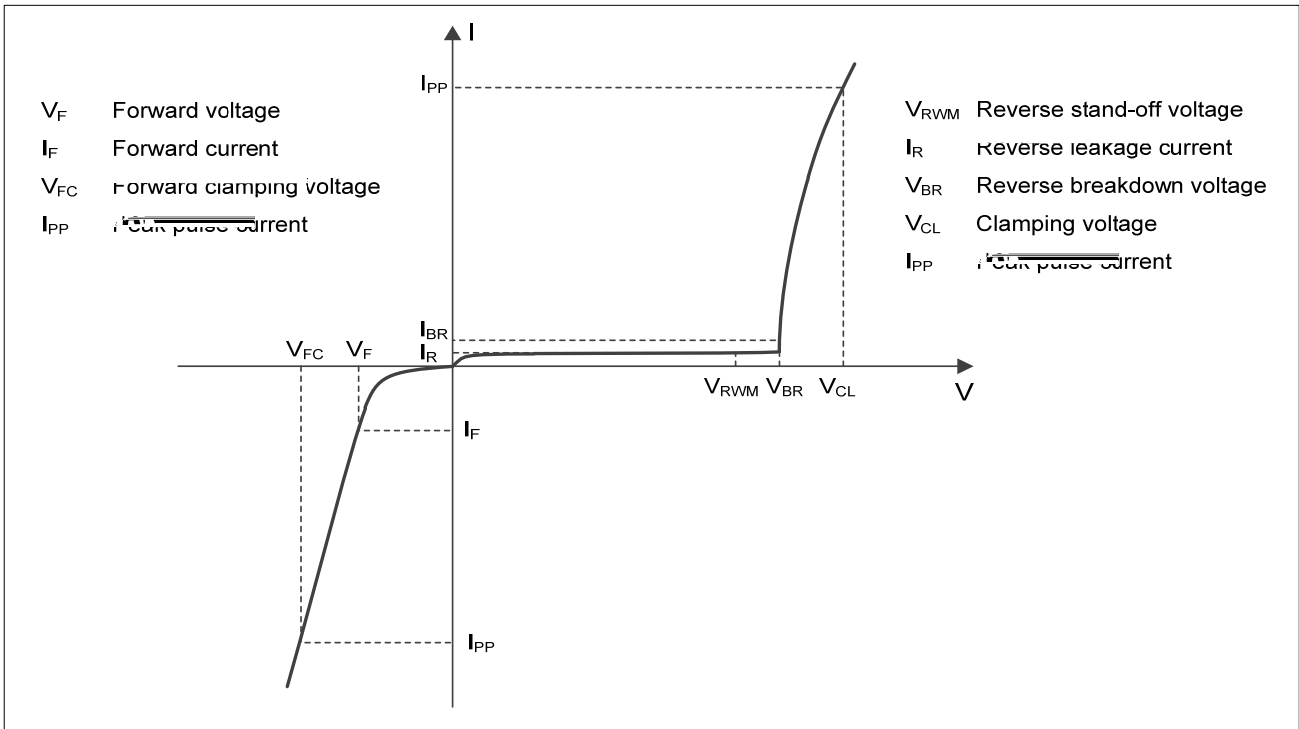
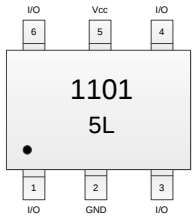




S) W\ S
"/RZ OHDNDJH5FQSW ,
"/RZ FODPSLQJ &YROWD JH\ S # , \$
7/3
" 6ROLG VWDWH VLOLFRRQ WHFKQRORJ\

- : SOT-23-6L
- : Tin plated leads, solderabl per J-STD-002 and JESD22-B102
- Cathode line denotes the cathode end
-



Peak pulse power ($t_p = 8/20\mu s$)	P_{pk}	42	W
Peak pulse current ($t_p = 8/20\mu s$)	I_{PP}	3.5	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 20	KV
ESD according to IEC61000-4-2 contact discharge		± 20	
Junction temperature	T_J	125	$^{\circ}C$
Operating temperature	T_{OP}	-40~85	$^{\circ}C$
Storage temperature	T_{STG}	-55~150	$^{\circ}C$

$T_a=25^{\circ}C$ Unless otherwise specified

Reverse maximum working voltage	V_{RWM}	V				5
Reverse leakage current	I_R	nA	$V_{RWM} = 5V$		<1	100
Reverse breakdown voltage	$V_{(BR)}$	V	$I_T = 1mA$	7	8	9
Forward voltage	V_F	V	$I_T = 10mA$	0.6	0.9	1.2
Clamping voltage ¹⁾	V_{CL}	V	$I_{PP} = 16A, t_p = 100ns$		14	
Dynamic resistance ¹⁾	R_{DYN}	Ω			0.33	
Clamping voltage ²⁾	V_{CL}	V	$V_{ESD} = 8kV$		14	
Clamping voltage ³⁾	V_{CL}	V	$I_{PP} = 1A, t_p = 8/20\mu s$			10
		V	$I_{PP} = 3.5A, t_p = 8/20\mu s$			12
Junction capacitance	CJ	pF	$V_R = 0V, f = 1MHz$ Any I/O pin to GND		0.4	0.65
			$V_R = 0V, f = 1MHz$ Between any I/O pin		0.25	0.4

Notes:

- 1) TLP parameter: $Z_0 = 50\Omega$, $t_p = 100ns$, $t_r = 2ns$, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.
- 2) Contact discharge mode, according to IEC61000-4-2.
- 3) Non-repetitive current pulse, according to IEC61000-4-5.

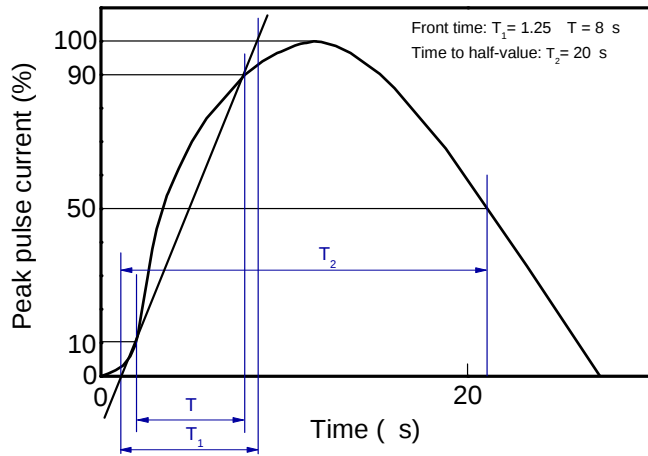
(Example)

ESDSLC5V0E	3000	30000	120000	7 reel



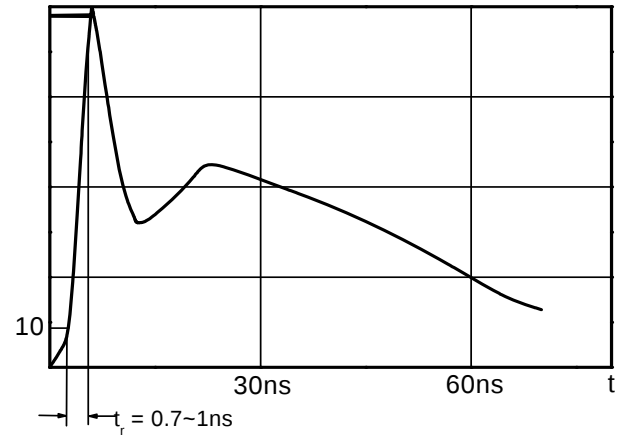
(Typical)

8/20 μ s waveform per IEC61000-4-5



Clamping voltage vs. Peak pulse current

Contact discharge current waveform per IEC61000-4-2



Capacitance vs. Reverse voltage

Non-repetitive peak pulse power vs. Pulse time

Power derating vs. Ambient temperature



ESD clamping
(+8kV contact discharge per IEC61000-4-2)

ESD clamping
(-8kV contact discharge per IEC61000-4-2)

TLP Measurement

Symbol	Dimensions in Millimeters		
	Min.	Typ.	Max.
A	1.05	-	1.45
A1	0	-	0.15
A2	0.90	1.10	1.30
b	0.30	0.40	0.50
c	0.10	-	0.21
D	2.72	2.92	3.12
E	2.60	2.80	



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