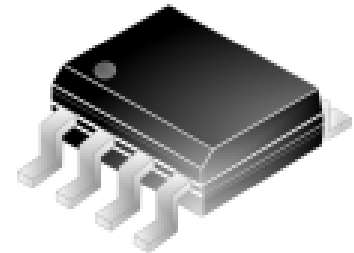




FEATURES

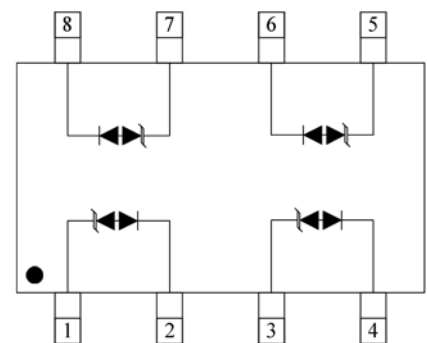
- ◇ 1000 Watts peak pulse power per line ($t_p=8/20\mu s$)
- ◇ Protects two line pairs
- ◇ Low clamping voltage
- ◇ Low operating voltage
- ◇ RoHS compliant



SOP-8

MAIN APPLICATIONS

- ◇ WAN/LAN equipment
- ◇ Desktops, servers, notebooks & handhelds
- ◇ Switching systems
- ◇ Audio/video inputs
- ◇ 10/100/1000 ethernet
- ◇ Base stations



PIN Configuration

PROTECTION SOLUTION TO MEET

- ◇ IEC61000-4-2 (ESD) $\pm 30kV$ (air), $\pm 30kV$ (contact)
- ◇ IEC61000-4-4 (EFT) 40A (5/50ns)
- ◇ IEC61000-4-5 (Lightning) 50A (8/20 μs)

MECHANICAL CHARACTERISTICS

- ◇ JEDEC SOP-8 package
- ◇ Molding compound flammability rating : UL 94V-0
- ◇ Weight 70 milligrams (approximate)
- ◇ Quantity per reel : 2,500pcs
- ◇ Lead finish : lead free
- ◇ Marking code : J 2.8-4

ABSOLUTE MAXIMUM RATINGS (T_A=25°C, RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse power dissipation on 8/20μs waveform	P _{PP}	1000	W
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	+/- 30 +/- 30	kV
Lead soldering temperature	T _L	260 (10 sec.)	°C
Operating junction temperature range	T _J	-55 to +125	°C
Storage temperature range	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse working voltage	V _{RWM}				2.8	V
Holding voltage	V _h	I _h =10mA	3.0			V
Reverse leakage current	I _R	V _{RWM} =2.8V			1	μA
Clamping voltage	V _C	I _{PP} =2A, t _p =8/20μs			5.5	V
		I _{PP} =10A, t _p =8/20μs			10	V
		I _{PP} =50A, t _p =8/20μs			18	V
Junction capacitance	C _J	V _{RWM} =0V, f=1MHz (Each line)		1.2	2.0	pF

RATINGS AND V-I CHARACTERISTICS CURVES (T_A=25°C, unless otherwise noted)

FIG.1: V- I curve characteristics (Uni-directional)

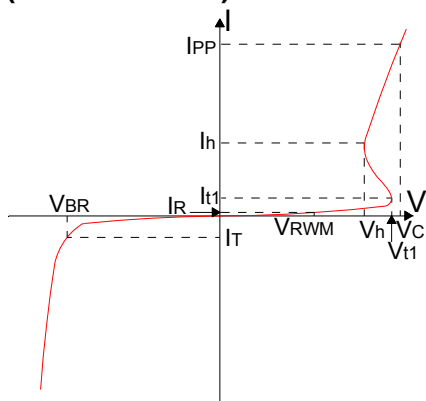


FIG.2: Pulse waveform (8/20μs)

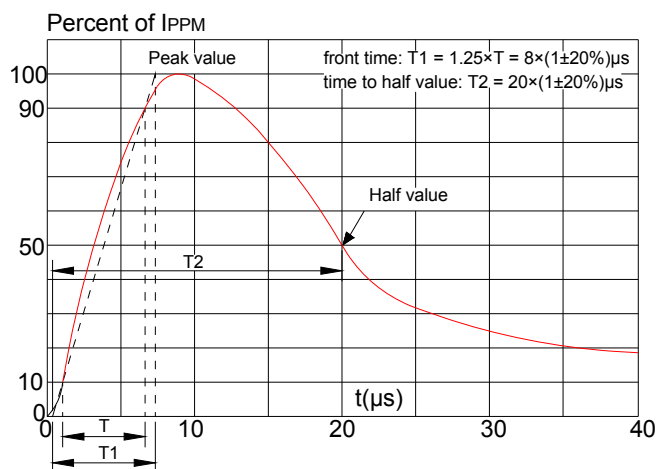


FIG.3: Pulse derating curve

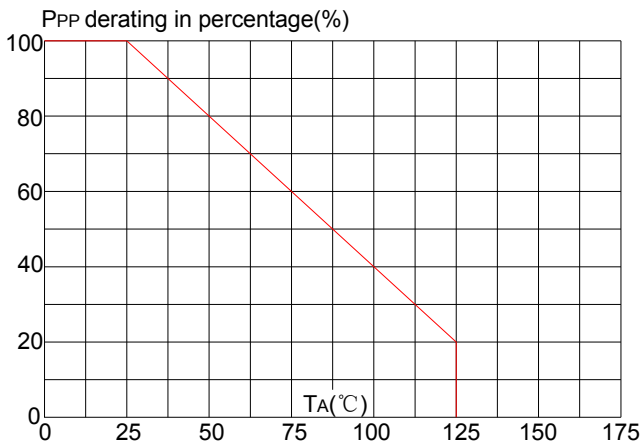
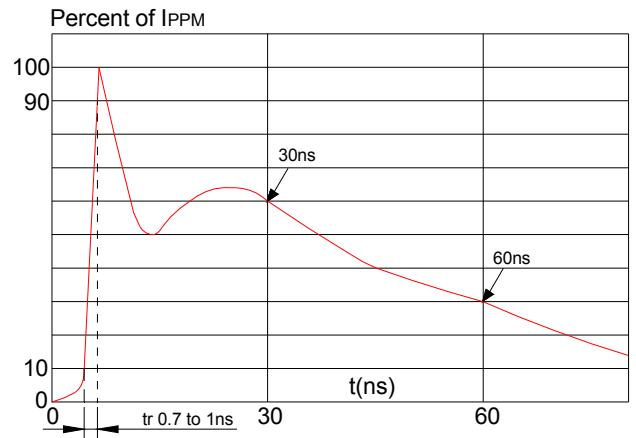
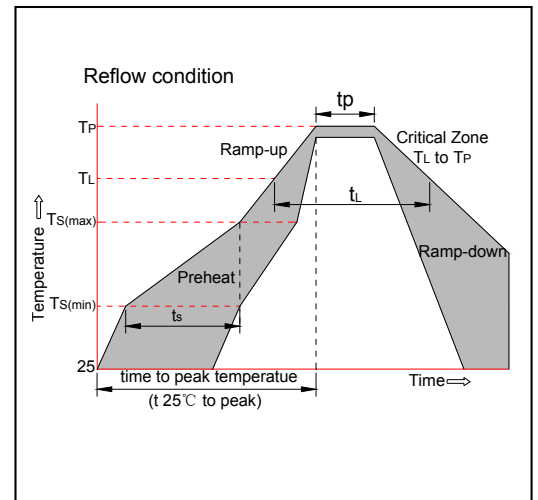


FIG.4: ESD clamping (30kV contact)

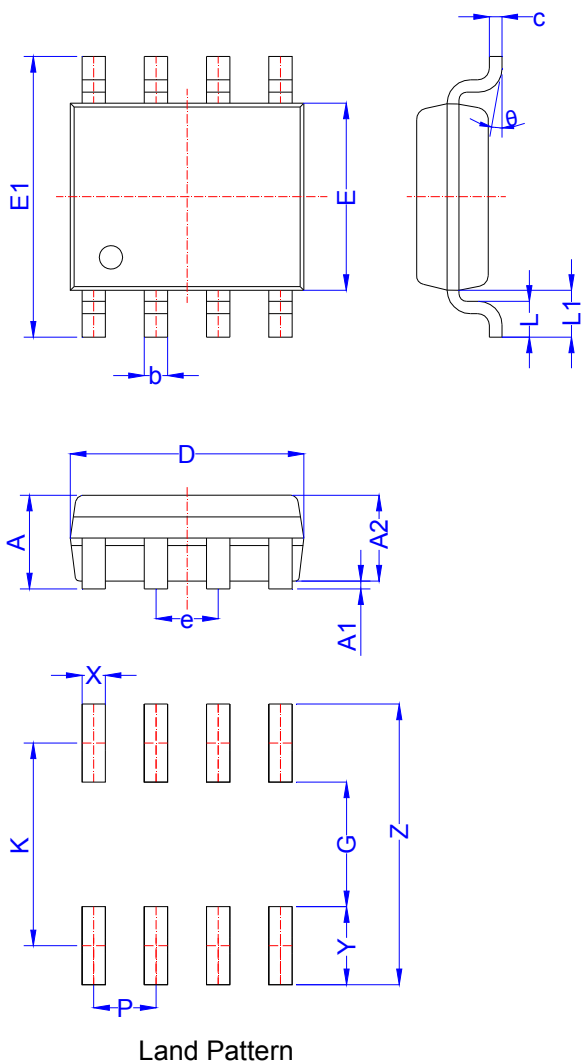


SOLDERING PARAMETERS

Reflow Condition		Pb-Free assembly (see figure at right)
Pre Heat	-Temperature Min (Ts(min))	+150°C
	-Temperature Max(Ts(max))	+200°C
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquidus Temp (TL)to peak)		3°C/sec. Max
Ts(max) to TL - Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature(TL)(Liquidus)	+217°C
	-Temperature(tL)	60-150 secs.
Peak Temp (Tp)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (tp)		20-40secs.
Ramp-down Rate		6°C/sec. Max
Time 25°C to Peak Temp (Tp)		8 min. Max
Do not exceed		+260°C

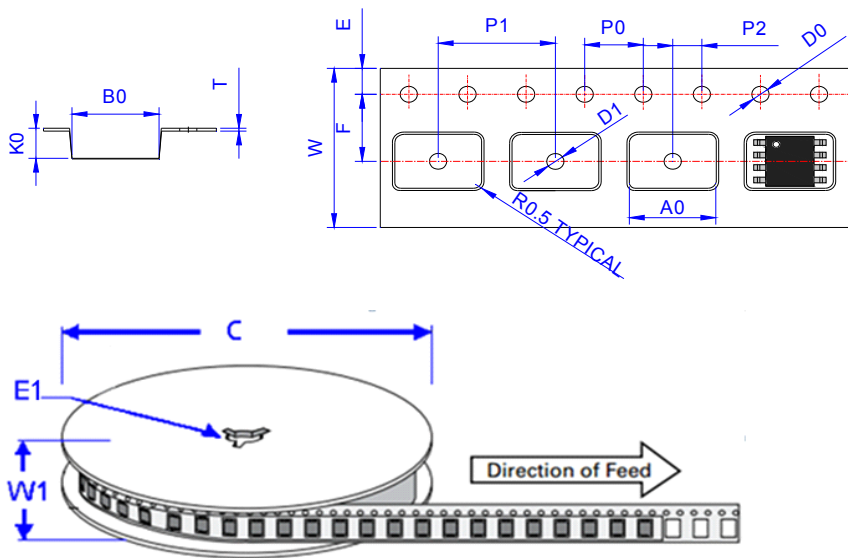


PACKAGE MECHANICAL DATA



Symbol	Millimeter			Inches		
	Min	Typ	Max	Min	Typ	Max
A	1.35	1.55	1.70	0.053	0.061	0.067
A1	0.04	0.11	0.18	0.002	0.004	0.007
A2	1.30	1.40	1.55	0.051	0.055	0.061
b	0.31	0.41	0.51	0.012	0.016	0.020
c	0.17	0.21	0.25	0.007	0.008	0.010
D	4.65	4.90	5.10	0.183	0.193	0.201
E	3.70	3.90	4.10	0.146	0.154	0.161
E1	5.80	6.00	6.20	0.228	0.236	0.244
e	1.14	1.27	1.40	0.045	0.050	0.055
L	0.40	0.50	0.77	0.016	0.020	0.030
L1	0.825	1.025	1.225	0.032	0.040	0.048
θ	0°	4°	8°	0°	4°	8°
G	3.00			0.118		
K	5.20			0.205		
P	1.27			0.050		
X	0.60			0.024		
Y	2.20			0.087		
Z	7.40			0.291		

TAPE AND REEL SPECIFICATION-SOP-8



Symbol	Millimeters	Inches
	Typ.	Typ.
A0	6.40	0.252
B0	5.30	0.209
C	330	13.0
D0	1.50	0.059
D1	1.50	0.059
E1	13.30	0.524
E	1.75	0.069
F	5.50	0.217
K0	2.10	0.083
P0	4.00	0.157
P1	8.00	0.315
P2	2.00	0.079
T	0.24	0.009
W	12.00	0.472
W1	15.70	0.618

PART No.	PACKAGE TYPE	QUANTITY(PCS) REEL	DESCRIPTION
JEU2.8K4P	SOP-8	2,500	13 inch reel pack

MARKING CODE

Part Number	Marking Code
JEU2.8K4P	

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