

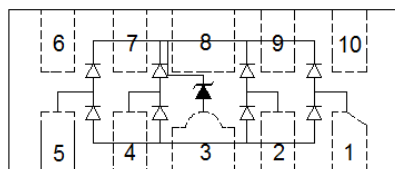
Features

- 30W Peak Pulse Power Per Line(8/20us)
- 3.3V Working Peak Reverse Voltage
- Maximum Reverse Peak Pulse Current:3A
- ESD per IEC 61000-4-2(Contact):8KV
- ESD per IEC 61000-4-2(Air):15KV
- Clamping Voltage @IPP=1A:8V
- Junction Capacitance:0.3PF
- Package:DFN2510-10L
- Polarity: Unidirectional

Mechanical Characteristics

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- Lead Finish: NiPdAu
- Case Material: “ Green ” Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020
- Terminal Connections: See Diagram Below
- Marking Information: See Below

Schematic And Configuration



Ordering Information

Part Number	Packaging	Reel Size
TEVA0R3V3D4X	Tape & Reel	7inch

Absolute Maximum Ratings (Ta=25°C,RH=45%-75%,unless otherwise noted)

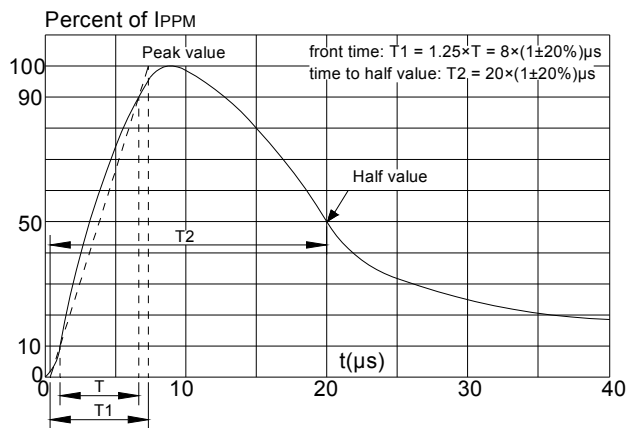
Parameter	Symbol	Value	Unit
Operating Temperature Range	Tj	-55~+125	°C
Storage Temperature Range	Tstg	-55~+150	°C

Electrical Characteristics (Ta=25°C)

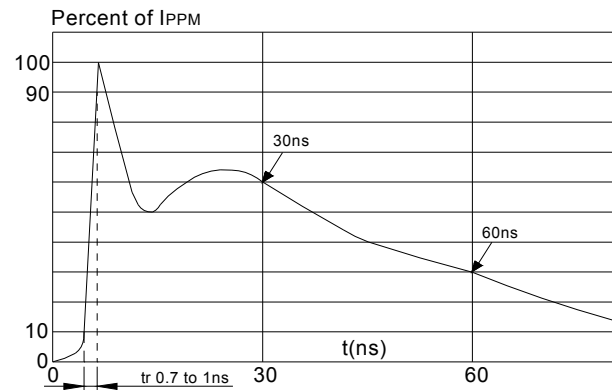
Parameter	Symbol	Min	Type	Max	Unit	Test Condition
Reverse Working Voltage	Vrwm			3.3	V	
Breakdown Voltage	Vbr	3.8			V	It=1mA
Reverse Leakage Current	Ir			0.1	uA	Vrwm=3.3V
Clamping Voltage	Vc		8	9	V	Ipp=1A(8×20us pulse)
Juntion Capacitance	Cj		0.3	0.4	pF	Vr=0V,f=1MHz I/O pin to GND
			0.2	0.3	pF	Vr=0V,f=1MHz Between I/O pins

Typical Performance Characteristics (Ta=25°C, unless otherwise noted)

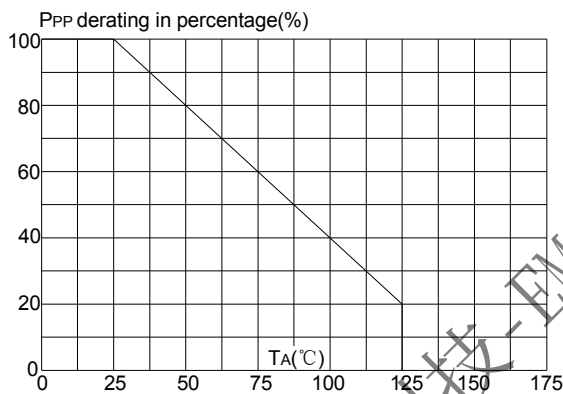
Pulse waveform (8/20μs)



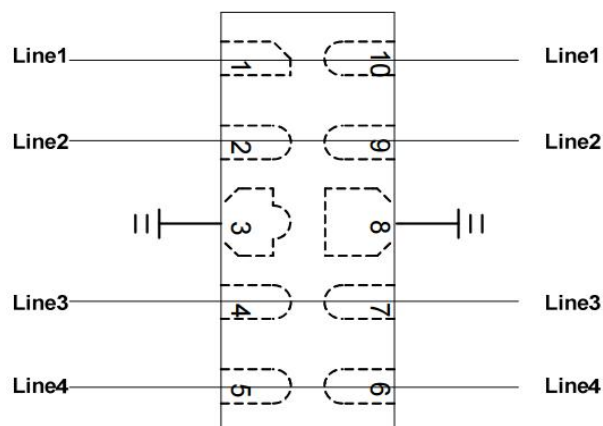
ESD clamping (8KV contact)



Pulse derating curve

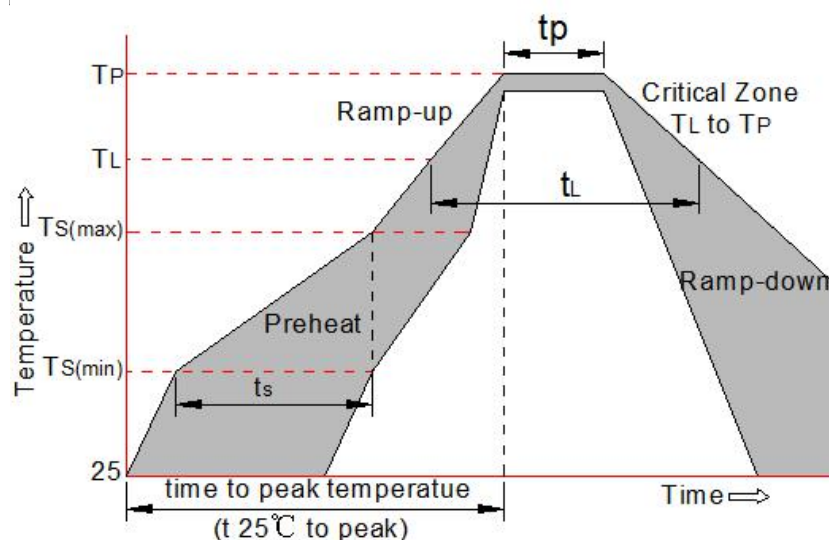


Typical Application

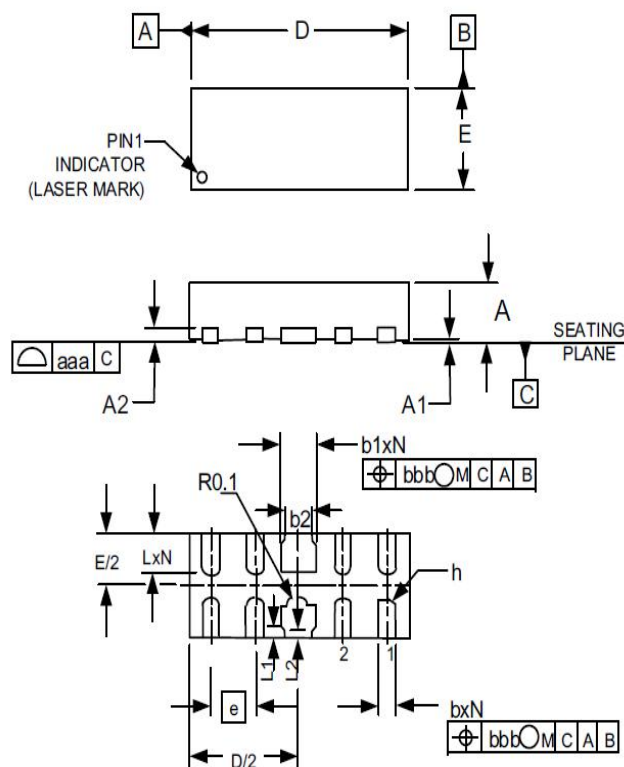


Soldering Parameters

Reflow Condition		Pb-Free Assembly (see as below)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150°C
	-Temperature Max($T_{s(max)}$)	+200°C
	-Time (Min to Max) (t_s)	60-180 secs.
Average ramp up rate (Liquid us Temp (T_L) to peak)		3°C/sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature(T_L) (Liquid us)	+217°C
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (t_p)		30 secs. Max
Ramp-down Rate		6°C/sec. Max
Time 25°C to Peak Temp (T_p)		8 min. Max
Do not exceed		+260°C

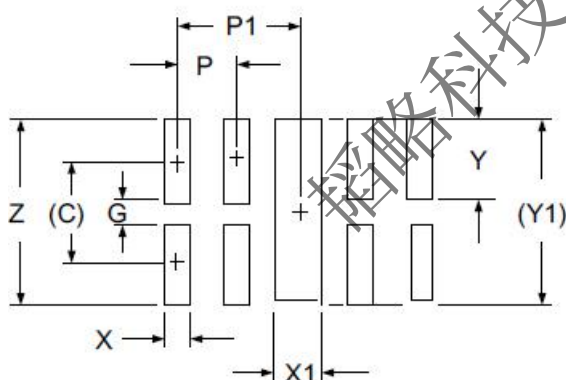


Package Mechanical Data



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.45	0.50	0.55	.017	.020	.022
A1	0.000	0.001	0.002	0.00	0.02	0.05
A2	(0.15)			(.006)		
b	0.10	0.20	0.25	.006	.008	.010
b1	0.35	0.40	0.45	.014	.016	.018
b2	0.20	0.25	0.45	.005	.010	.018
D	2.45	2.50	2.55	.096	.098	.100
E	0.95	1.00	1.05	.037	.039	.041
e	0.50 BSC			.020 BSC		
L	0.35	0.40	0.45	.014	.016	.018
L1	0.00	0.075	0.10	.000	.003	.004
L2	0.00	0.05	0.05	.000	.002	.003
h	0.00	0.12	0.15	.000	.005	.006
h	0.07	0.12	0.17	0.003	0.005	0.007
N	8			8		
aaa	0.08			0.003		
Bbb	0.10			0.004		

Suggested Land Pattern



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
C	(0.875)	(.034)
G	0.20	.008
P	0.50	0.02
P1	1.00	.039
X	0.25	.010
X1	0.45	.018
Y	0.675	.027
Y1	(1.55)	(.061)
Z	1.55	.061

Contact Information

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