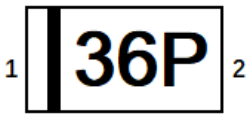
Features

* Ultra low leakage: nA level
* Low clamping voltage
* RoHS Compliant
* REACH & SVHC Compliant
* Halogen Compliant
* DFN1610-2L Package

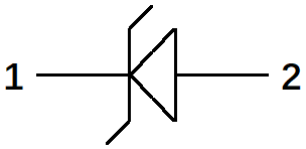
Package and Marking Diagram

DFN1610-2L



Top view

Circuit Diagram

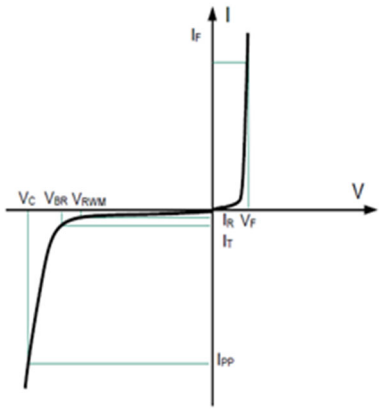


Ordering Information

Part Number	Packaging	Reel Size
PTVS26VZ1USKYL-CN	3000/Tape & Reel	7 inch

Portion Electronics Parameter

Symbol	Parameter
V_{RWM}	Peak Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @I_T
I_T	Test Current
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @I_{PP}



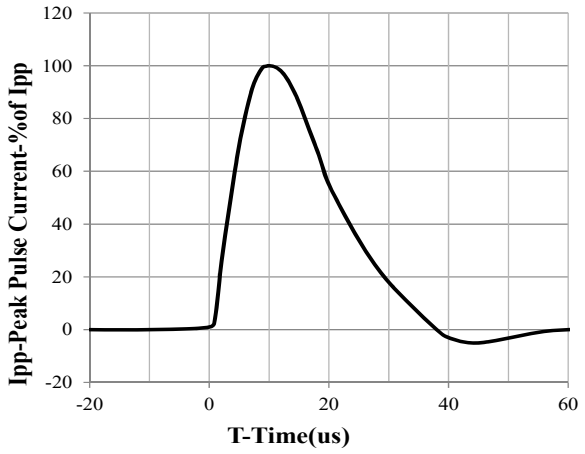
Absolute Maximum Ratings (T_A=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs pulse)	Ppk	2400	W
Peak Pulse Current (8/20μs pulse)	I_{PP}	50	A
ESD per IEC 61000−4−2 (Air)	V_{ESD}	±30	kV
Operating Temperature Range	T_J	−40 to +125	°C
Storage Temperature Range	Tstg	−55 to +150	°C

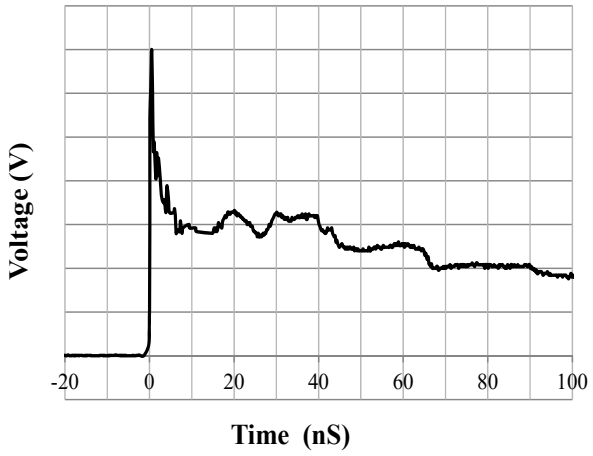
Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse working voltage	V_{RWM}				36	V
Breakdown voltage	V_{BR}	I_T = 1mA	38	41.5	44	V
Reverse leakage current	I_R	V_{RWM} = 36V		<10	100	nA
Clamping voltage	V_C	I_{PP} = 1A (8/20μs)		41	43	V
Clamping voltage	V_C	I_{PP} = 50A (8/20μs)		43	48	V
Junction capacitance	C_J	V_R = 0V, f = 1MHz		150	280	pF

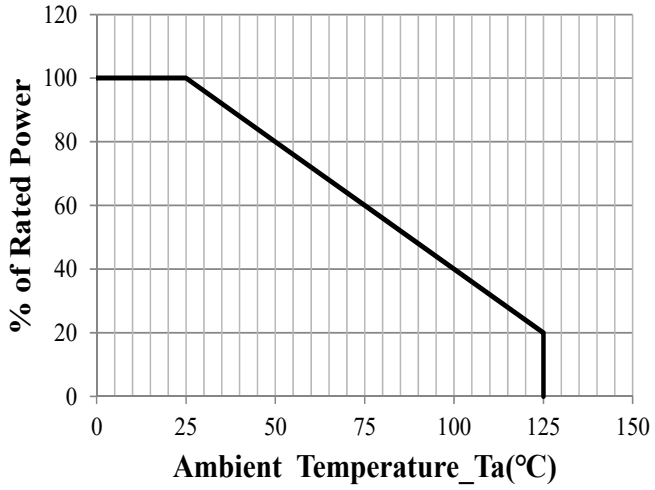
Typical Performance Characteristics (T_A=25°C unless otherwise Specified)



8/20us Pulse Waveform

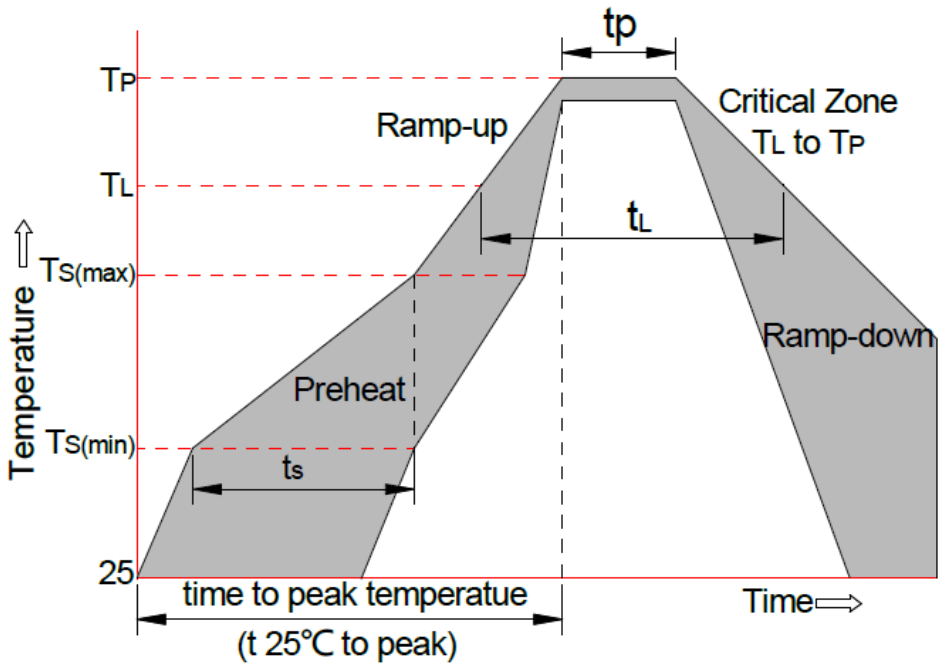


IEC61000-4-2 Pulse Waveform



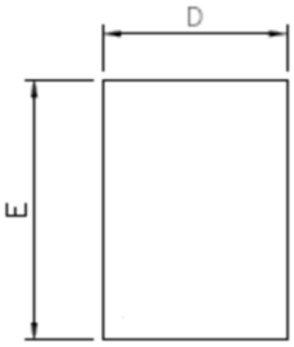
Power Derating Curve

Soldering Parameters



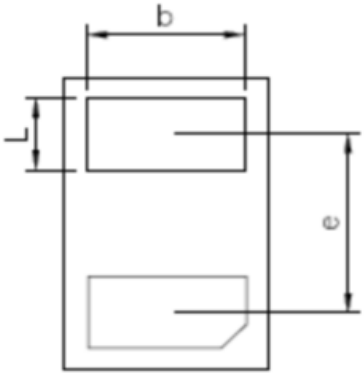
Reflow Conditions		Pb-Free Assembly
Pre-heat	-Temperature Min (Ts (min))	+150°C
	-Temperature Max (Ts (max))	+200°C
	-Time (Min to Max) (ts)	60-180 secs
Average ramp up rate(Liquid us Temp (TL) to peak)		3°C/sec. Max
TS (max) to TL-Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature (TL) (Liquid us)	+217°C
	-Temperature (tL)	60-150 secs
Peak Temp (Tp)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (tp)		30 secs. Max
Ramp-down Rate		6 °C/sec. Max
Time 25°C to Peak Temp (TP)		8 min. Max
Do not exceed		+260°C

DFN1610-2L Package Outline Drawing



TOP VIEW

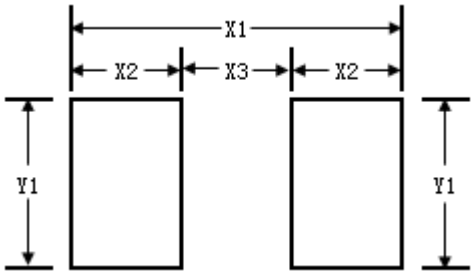
SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	Min	Typ	Max	Min	Typ	Max
A	0.50	0.55	0.60	0.0197	0.0217	0.0236
A1	0.00	0.03	0.05	0.0000	0.0012	0.0020
b	0.75	0.80	0.85	0.0295	0.0315	0.0335
c	0.152 REF			0.0060 REF		
D	0.95	1.00	1.05	0.0374	0.0394	0.0413
e	1.09 REF			0.0429 REF		
E	1.55	1.60	1.65	0.0610	0.0630	0.0650
L	0.35	0.40	0.45	0.0138	0.0157	0.0177



BOTTOM VIEW

SIDE VIEW

Suggested Land Pattern



SYM	DIMENSIONS	
	MILLIMETERS	INCHES
X1	1.700	0.0669
X2	0.600	0.0236
X3	0.500	0.0197
Y1	1.000	0.0394

Note:

1. General tolerance: ±0.05 mm or ±0.002 inch.
2. The land pattern is for reference purposes only.

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