



Features

- 3600 Watts Peak Power ($t_p = 8/20\mu s$)
- Fast Response time: Typically $< 1ns$
- Excellent Clamping Capability
- Low Inductance
- Low profile package

IEC COMPATIBILITY (EN61000-4)

- IEC 61000-4-2 (ESD) $\pm 30kV$ (air), $\pm 30kV$ (contact)
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 100A (8/20 μs)

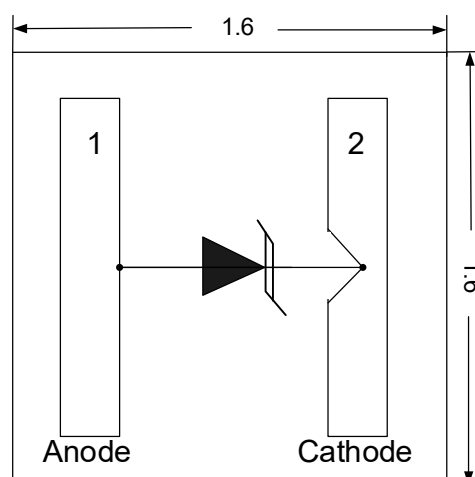
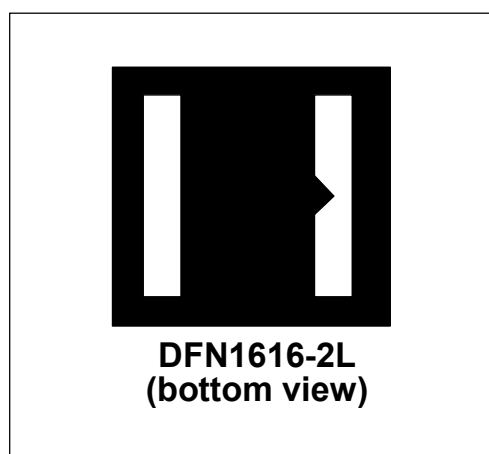
Mechanical Characteristics

- DFN1616-2L package
- Molding compound flammability rating: UL 94V-0
- Marking : Making Code
- Packaging : Tape and Reel per EIA 481
- RoHS Compliant

Applications

- I/O Interfaces
- Power lines
- Automotive and Telecommunication
- Computer & Consumer Electronics
- Industrial Electronics
- Microcontroller Input Protection

PIN Configuration

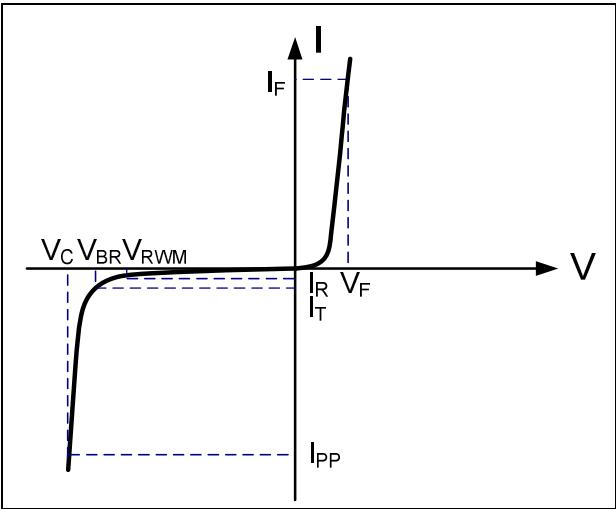


Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	3600	Watts
Peak Pulse Current ($t_p=8/20\mu s$)	I_{PP}	100	A
Operating Temperature	T_J	-55 to + 125	°C
Storage Temperature	T_{STG}	-55 to +150	°C

Electrical Parameters (T=25°C)

Symbol	Parameter
I_{PP}	Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Reverse Stand-Off Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_F	Forward Current
V_F	Forward Voltage @ I_F



Electrical Characteristics

Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				26	V
Breakdown Voltage	VBR	$I_T=1\text{mA}$	28		32	V
Forward Voltage	V_F	$I_F=10\text{mA}$	0.5		1.0	V
Reverse Leakage Current	I_R	$V_{RWM}=26\text{V}$ $T=25^\circ\text{C}$			100	nA
Clamping Voltage ³	V_C	$I_{PP}=100\text{A}$, $t_p=8/20\mu\text{s}$		33	36	V
Dynamic Resistance ^{1,2,3}	R_{DYN}	TLP=0.2/100ns		0.18		Ω
Junction Capacitance ³	C_j	VR = 0V, f = 1MHz		300	450	pF

- Notes : 1、TLP Setting : $t_p=100\text{ns}$, $t_r=0.2\text{ns}$, I_{TLP} and V_{TLP} sample window: $t_1=70\text{ns}$ to $t_2=90\text{ns}$.
2、Dynamic resistance calculated from $I_{PP}=4\text{A}$ to $I_{PP}=16\text{A}$ using “Best Fit”.
3、These specifications are guaranteed by design and characterization. Not FT item.

Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

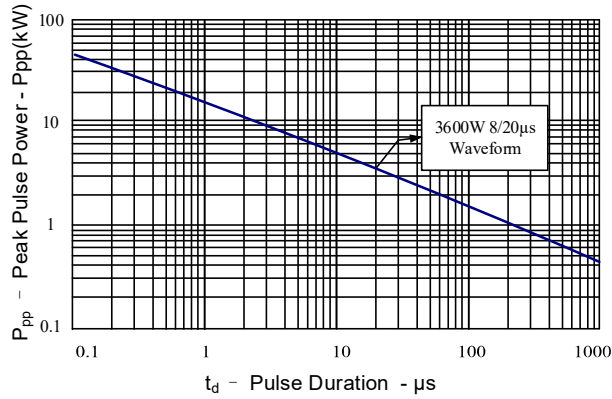


Figure 2: Power Derating Curve

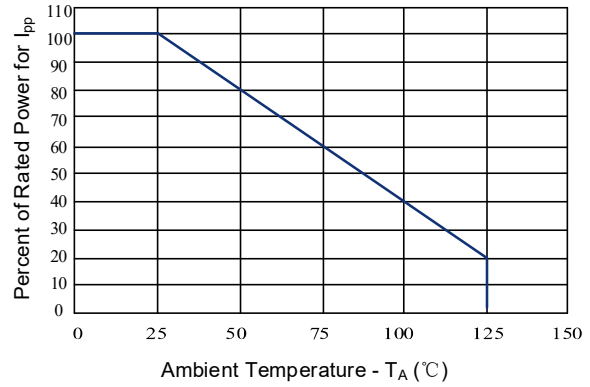


Figure 3: Clamping Voltage vs. Peak Pulse Current

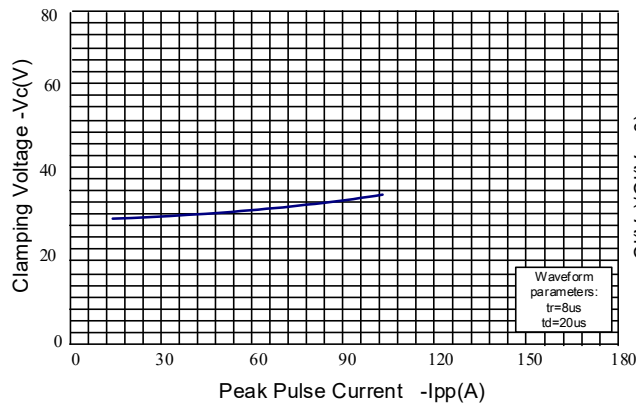


Figure 4: Normalized Junction Capacitance vs. Reverse Voltage

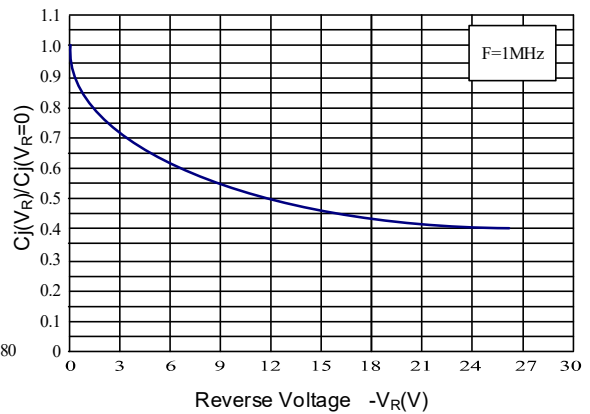


Figure 5: 8/20μs Pulse Waveform

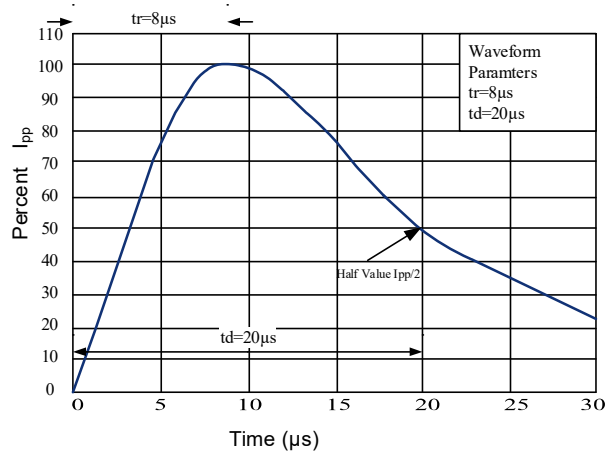
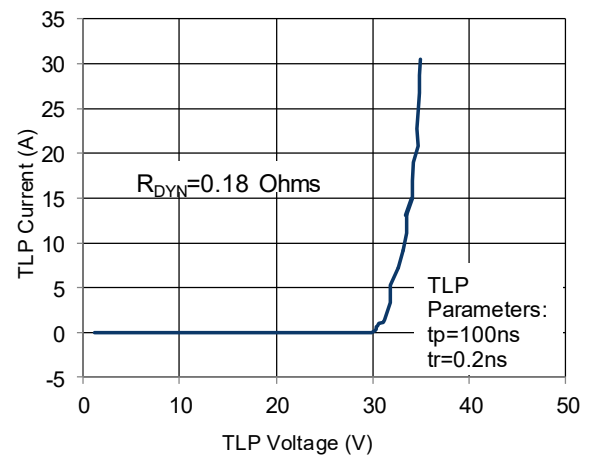


Figure 6: TLP I-V Curve



ES26P4M

Outline Drawing –DFN1616-2L

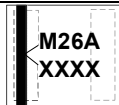
PACKAGE OUTLINE		DIMENSIONS		
SYMBOL		MILLIMETER		
		MIN	NOM	MAX
A		0.70	0.75	0.80
A1		0.00	0.02	0.05
b		0.25	0.30	0.35
c		0.203REF		
D		1.50	1.60	1.70
e		1.00BSC		
E		1.50	1.60	1.70
L		1.25	1.30	1.35
X		0.07	0.12	0.17
Y		0.19	0.24	0.29

DIMENSIONS	
DIM	MILLIMETERS
P	1.00 TYP
M	0.50
N	1.50

Notes

1. Dimensioning and tolerances per ANSI Y14.5M, 1985.
2. Controlling Dimension: Millimeter.
3. Dimensions are exclusive of mold flash and metal burrs.

Marking Codes

Part Number	Marking Code
ES26P4M	

Package Information

Qty: 3k/Reel

Revision History

NO.	Version	Date	Revision Item	Revision History
1	1.0	2018-12-06	Release Version	