

Features

- 1W Power Dissipation on Polyimide PCB
- Patented Interlocking Clip Design, US Patent #7,095,113
- **Lead Free Finish, RoHS Compliant (Note 2)**
- **"Green" Molding Compound (No Br, Sb)**
- **Qualified to AEC-Q101 Standards for High Reliability**

Mechanical Data

- Case: PowerDI®123
- Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminal Connections: Cathode Band
- Terminals: Finish - Matte Tin annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208 
- Marking Information: See Page 2
- Ordering Information: See Page 2
- Weight: 0.01 grams (approximate)



Top View

Maximum Ratings @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward Voltage @ I _F = 200mA	V _F	1.2	V

Thermal Characteristics

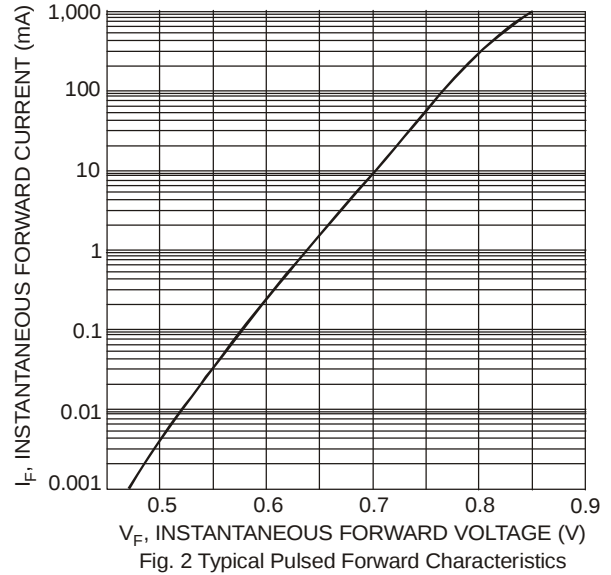
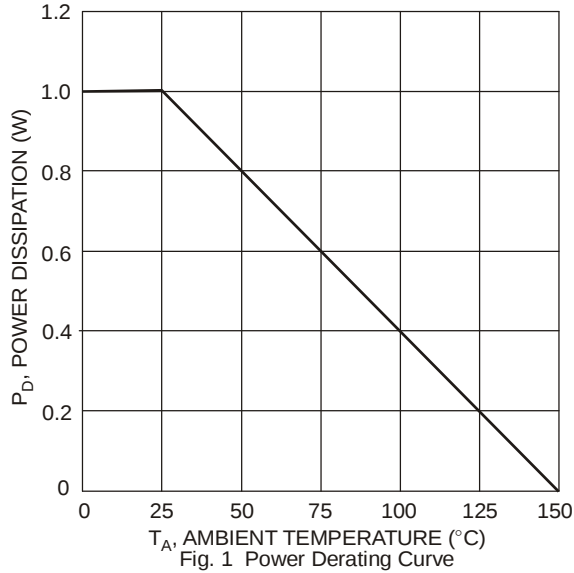
Characteristic	Symbol	Typ	Max	Unit
Power Dissipation (Note 1)	P _D	—	1.0	W
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	110	130	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150		°C

Electrical Characteristics @T_A = 25°C unless otherwise specified

Type Number	Marking Codes	Zener Voltage Range (Note 3)				Maximum Zener Impedance (Note 4)		Maximum Reverse Current (Note 3)		Typical Temperature Coefficient @ I _{ZTC} %/°C	
		V _Z @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}		I _R	@ V _R	Min	Max
		Nom (V)	Min (V)	Max (V)	mA	Typ (Ω)	Max (Ω)	μA	V		
DFLZ62	FJY	62	58	65	10	25	80	1	47	0.16	0.82

- Notes:
1. Device mounted on polyimide substrate, double-sided PC board with 2 oz. copper land patterns having area 16 times the suggested pad layout as seen on page 3.
 2. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied. Please visit our website at http://www.diodes.com/products/lead_free.html.
 3. Pulse test to minimize self-heating.
 4. f = 1kHz.

PowerDI is a registered trademark of Diodes Incorporated.

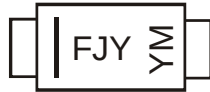


Ordering Information (Note 5)

Device	Packaging	Shipping
DFLZ62-7	PowerDI [®] 123	3000/Tape & Reel

Notes: 5. For packaging details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

Marking Information



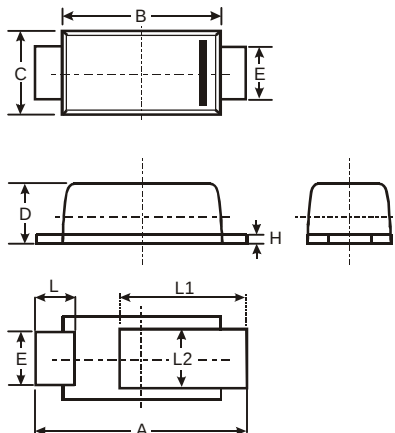
FJY = Product Type Marking Code
 YM = Date Code Marking
 Y = Year (ex: W = 2009)
 M = Month (ex: 9 = September)

Date Code Key

Year	2009	2010	2011	2012	2013	2014	2015
Code	W	X	Y	Z	A	B	C

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	O	N	D

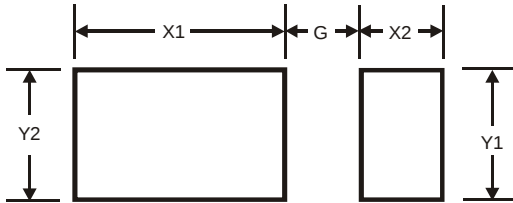
Package Outline Dimensions



PowerDI [®] 123			
Dim	Min	Max	Typ
A	3.50	3.90	3.70
B	2.60	3.00	2.80
C	1.63	1.93	1.78
D	0.93	1.00	0.98
E	0.85	1.25	1.00
H	0.15	0.25	0.20
L	0.55	0.75	0.65
L1	1.80	2.20	2.00
L2	0.95	1.25	1.10
All Dimensions in mm			

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Suggested Pad Layout



Dimensions	Value (in mm)
G	1.0
X1	2.2
X2	0.9
Y1	1.4
Y2	1.4

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