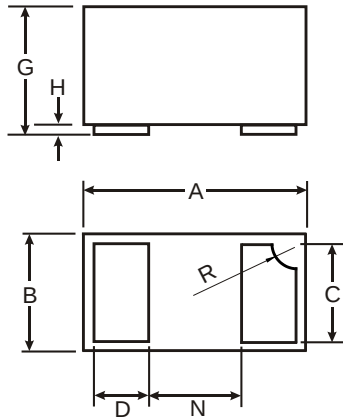


Features

- Σ Ultra-Small Leadless Surface Mount Package
- Σ Ideally Suited for Automated Assembly Processes
- Σ **Lead Free By Design/RoHS Compliant (Note 1)**
- Σ "Green" Device (Note 2)

Mechanical Data

- Σ Case: DFN1006-2
- Σ Case Material: Molded Plastic, "Green" Molding Compound. UL Flammability Classification Rating 94V-0
- Σ Moisture Sensitivity: Level 1 per J-STD-020C
- Σ Terminal Connections: Cathode Dot (See marking information)
- Σ Terminals: Finish æ NiPdAu annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208
- Σ Marking: See Electrical Characteristics Table, Dot Denotes Cathode Side (See marking information)
- Σ Ordering Information: See Page 3
- Σ Weight: 0.001 grams



DFN1006-2			
Dim	Min	Max	Typ
A	0.95	1.075	1.00
B	0.55	0.675	0.60
C	0.45	0.55	0.50
D	0.20	0.30	0.25
G	0.47	0.53	0.50
H	0	0.05	0.03
N	æ	æ	0.40
R	0.05	0.15	0.10
All Dimensions in mm			

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward Voltage (Note 3) @ I _F = 10mA	V _F	0.9	V
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

- Notes:
1. No purposefully added lead.
 2. Diodes Inc.'s "Green" policy can be found on our website at http://www.diodes.com/products/lead_free/index.php.
 3. Short duration pulse test used to minimize self-heating effect.

Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation	P _d	250	mW
Thermal Resistance, Junction to Ambient Air	R _{qJA}	500	°C/W

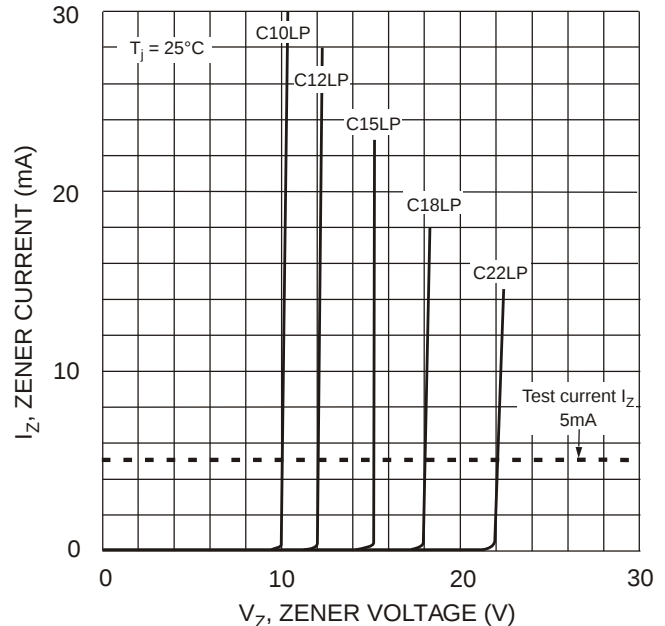
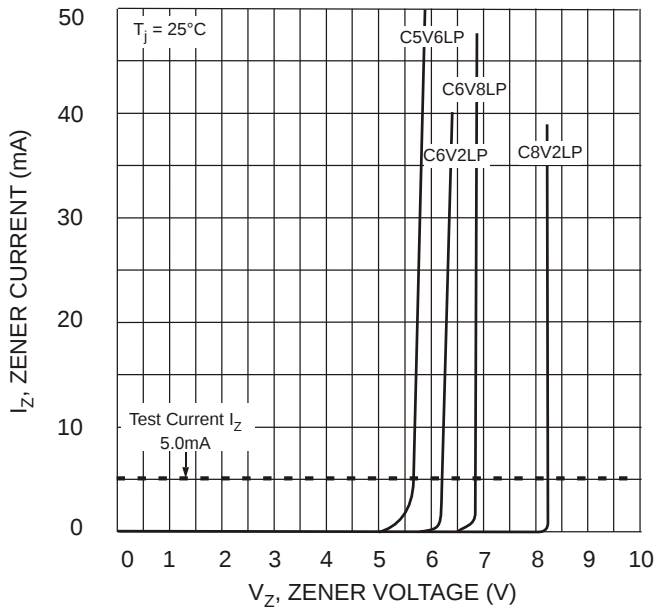
Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

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Type Number	Marking Codes	Zener Voltage Range (Note 4)				Maximum Zener Impedance (Note 5)			Maximum Reverse Current (Note 4)		Typical Temperature Coefficient @ I _{ZTC} mV/°C		Test Current I _{ZTC}
		V _Z @ I _{ZT}			I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}	I _{ZK}	I _R	@ V _R			
		Nom (V)	Min (V)	Max (V)	mA	W		mA	uA	V	Min	Max	
BZT52C5V1LP	9Y	5.1	4.8	5.4	5	60	480	1.0	2.0	2.0	-2.7	1.2	5
BZT52C5V6LP	9A	5.6	5.2	6.0	5	40	400	1.0	1.0	2.0	-2	2.5	5
BZT52C6V2LP	9B	6.2	5.8	6.6	5	10	150	1.0	3.0	4.0	0.4	3.7	5
BZT52C6V8LP	9C	6.8	6.4	7.2	5	15	80	1.0	2.0	4.0	1.2	4.5	5
BZT52C7V5LP	9D	7.5	7.0	7.9	5	15	80	1.0	1.0	5.0	2.5	5.3	5
BZT52C8V2LP	9E	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0	3.2	6.2	5
BZT52C9V1LP	9F	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0	3.8	7.0	5
BZT52C10LP	9G	10	9.4	10.6	5	20	150	1.0	0.2	7.0	4.5	8.0	5
BZT52C11LP	9H	11	10.4	11.6	5	20	150	1.0	0.1	8.0	5.4	9.0	5
BZT52C12LP	9J	12	11.4	12.7	5	25	150	1.0	0.1	8.0	6.0	10.0	5
BZT52C13LP	9K	13	12.4	14.1	5	30	170	1.0	0.1	8.0	7.0	11.0	5
BZT52C15LP	9L	15	13.8	15.6	5	30	200	1.0	0.1	10.5	9.2	13.0	5
BZT52C16LP	9M	16	15.3	17.1	5	40	200	1.0	0.1	11.2	10.4	14.0	5
BZT52C18LP	9N	18	16.8	19.1	5	45	225	1.0	0.1	12.6	12.4	16.0	5
BZT52C20LP	9P	20	18.8	21.2	5	55	225	1.0	0.1	14.0	14.4	18.0	5
BZT52C22LP	9R	22	20.8	23.3	5	55	250	1.0	0.1	15.4	16.4	20.0	5
BZT52C24LP	9S	24	22.8	25.6	5	70	250	1.0	0.1	16.8	18.4	22.0	5

Notes: 4. Short duration test pulse used to minimize self-heating effect.
5. $f = 1\text{kHz}$.



Ordering Information (Note 6)

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Device	Packaging	Shipping
(Type Number)-7*	DFN1006-2	3000/Tape & Reel

* Add "-7" to the appropriate type number in Table 1 above example: 6.2V Zener = BZT52C6V2LP-7.

Notes: 6. For Packaging Details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

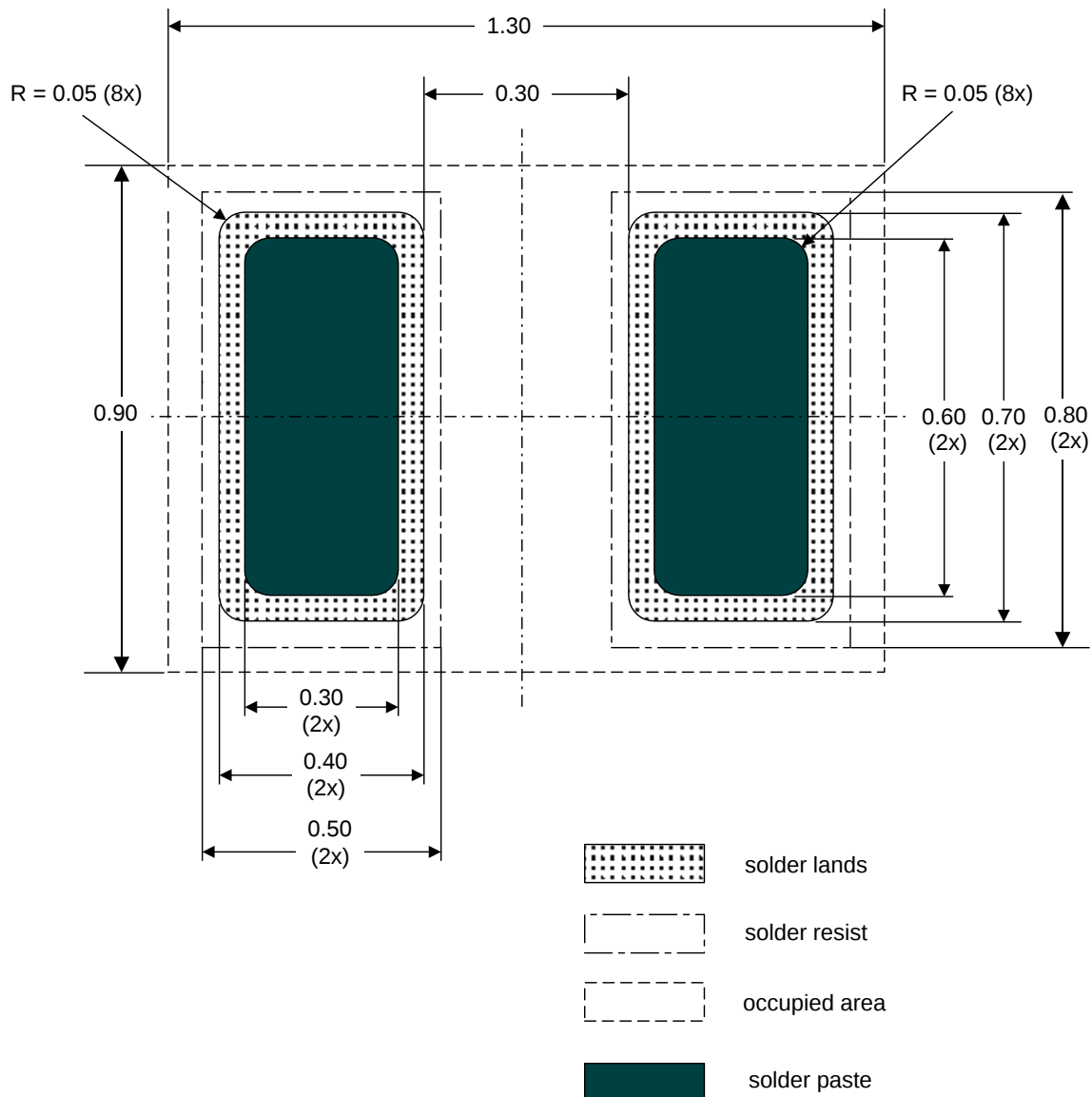
Marking Information



9X = Product Type Marking Code, Dot Denotes Cathode Side;
See Page 2

Suggested Pad Layout

Dimensions in mm.



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