

PZS52C3V9M1Q ~ PZS52C47M1Q Series

Silicon Zener Diode

Voltage

3.9~47 V

Power

250 mW

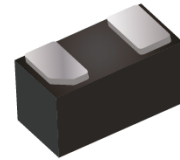
Features

- Planar Die construction
- Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : DFN1006-2L Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 grams

DFN1006-2L



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Peak Pulse Power Dissipation at T _A = 25 °C ^(Note 1)	P _D	250	mW
Typical Thermal Resistance Junction to Ambient ^(Note 2)	R _{θJA}	500	°C/W
Forward Voltage at I _F = 10mA	V _F	0.9	V
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

PZS52C3V9M1Q ~ PZS52C47M1Q Series

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

Part Number	Nominal Zener Voltage				Nominal Zener Impedance				Max. Reverse Leakage Current		Marking Code
	V _Z @I _{ZT}				Z _{zT} @I _{ZT}		Z _{zK} @I _{zK}		I _R @V _R		
	Nom. V	Min. V	Max. V	mA	Ω	mA	Ω	mA	μA	V	
PZS52C3V9M1Q	3.9	3.71	4.10	5	90	5	500	1.0	3.0	1	UA
PZS52C4V3M1Q	4.3	4.09	4.52	5	90	5	600	1.0	3.0	1	UB
PZS52C4V7M1Q	4.7	4.47	4.94	5	80	5	500	1.0	3.0	2	UC
PZS52C5V1M1Q	5.1	4.85	5.36	5	60	5	480	1.0	2.0	2	UD
PZS52C5V6M1Q	5.6	5.32	5.88	5	40	5	400	1.0	1.0	2	UE
PZS52C6V2M1Q	6.2	5.89	6.51	5	10	5	150	1.0	3.0	4	UF
PZS52C6V8M1Q	6.8	6.46	7.14	5	15	5	80	1.0	2.0	4	UG
PZS52C7V5M1Q	7.5	7.13	7.88	5	15	5	80	1.0	1.0	5	UH
PZS52C8V2M1Q	8.2	7.79	8.61	5	15	5	80	1.0	0.7	5	UJ
PZS52C9V1M1Q	9.1	8.65	9.56	5	15	5	100	1.0	0.5	6	UL
PZS52C10M1Q	10	9.50	10.50	5	20	5	150	1.0	0.2	7	UM
PZS52C11M1Q	11	10.45	11.55	5	20	5	150	1.0	0.1	8	UN
PZS52C12M1Q	12	11.40	12.60	5	25	5	150	1.0	0.1	8	UP
PZS52C13M1Q	13	12.35	13.65	5	30	5	170	1.0	0.1	8	UQ
PZS52C15M1Q	15	14.25	15.75	5	30	5	200	1.0	0.1	10.5	US
PZS52C16M1Q	16	15.20	16.80	5	40	5	200	1.0	0.1	11.2	UT
PZS52C18M1Q	18	17.10	18.90	5	45	5	225	1.0	0.1	12.6	UV
PZS52C20M1Q	20	19.00	21.00	5	55	5	225	1.0	0.1	14	UW
PZS52C22M1Q	22	20.90	23.10	5	55	5	250	1.0	0.1	15.4	UX
PZS52C24M1Q	24	22.80	25.20	5	70	5	250	1.0	0.1	16.8	UY
PZS52C27M1Q	27	25.65	28.35	2	80	2	300	0.5	0.1	18.9	UZ
PZS52C30M1Q	30	28.50	31.50	2	80	2	300	0.5	0.1	21	VB
PZS52C33M1Q	33	31.35	34.65	2	80	2	325	0.5	0.1	23.1	VC
PZS52C36M1Q	36	34.20	37.80	2	90	2	350	0.5	0.1	25.2	VD
PZS52C39M1Q	39	37.05	40.95	2	90	2	350	0.5	0.1	27.3	VE
PZS52C43M1Q	43	40.85	45.15	2	100	2	375	0.5	0.1	30.1	VF
PZS52C47M1Q	47	44.65	49.35	2	170	2	375	0.5	0.1	32.9	VG

NOTES :

1. Mounted on a 10 x 10cm copper pads to each terminal.
2. Mounted on a FR-4 PCB, single-sided copper, Standard footprint.

PZS52C3V9M1Q ~ PZS52C47M1Q Series

TYPICAL CHARACTERISTIC CURVES

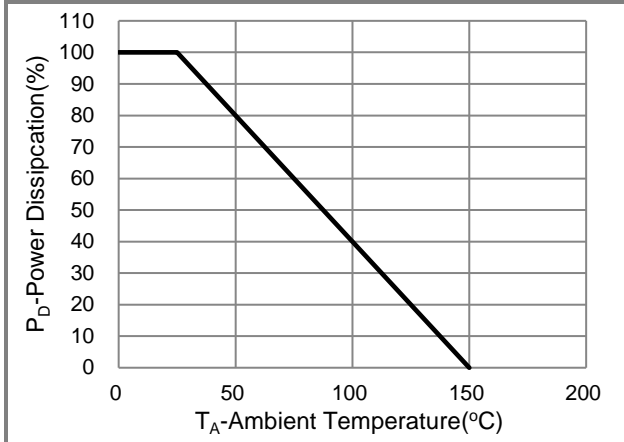


Fig.1 Power Rating Curve

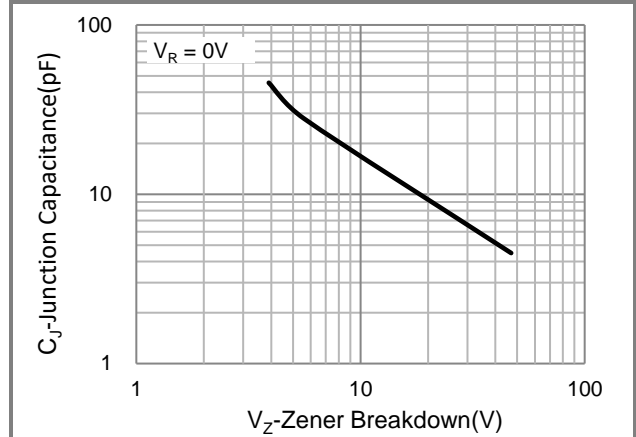


Fig.2 Typical Junction Capacitance

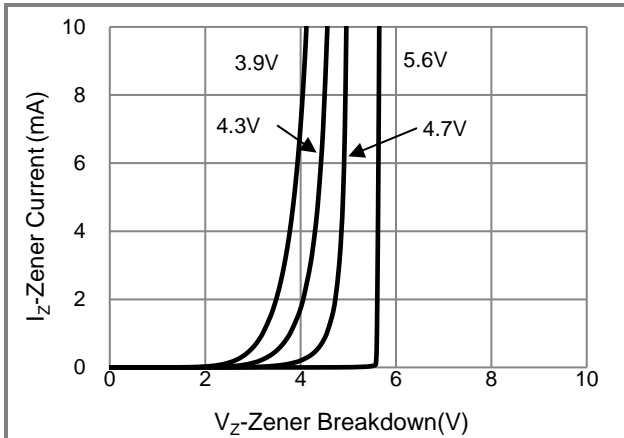


Fig.3 Typical Zener Breakdown

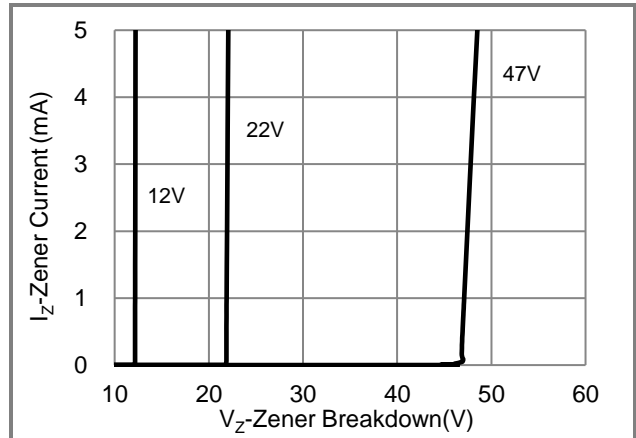


Fig.4 Typical Zener Breakdown

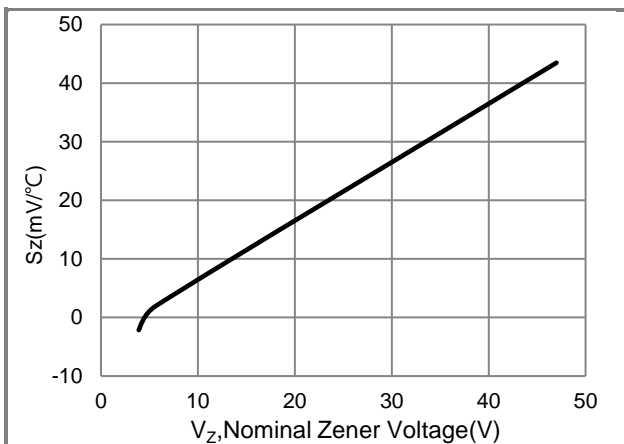


Fig.5 Typical Temperature coefficient

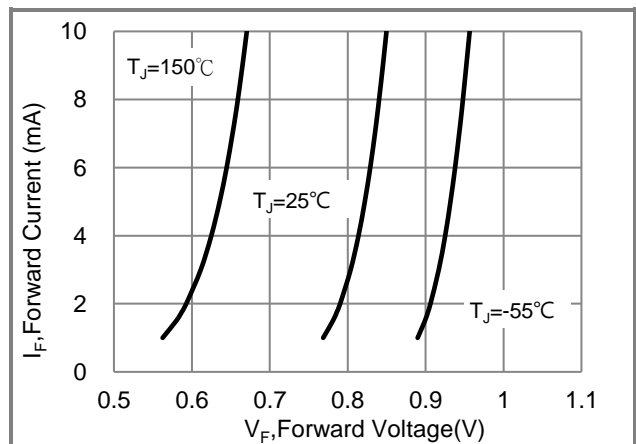


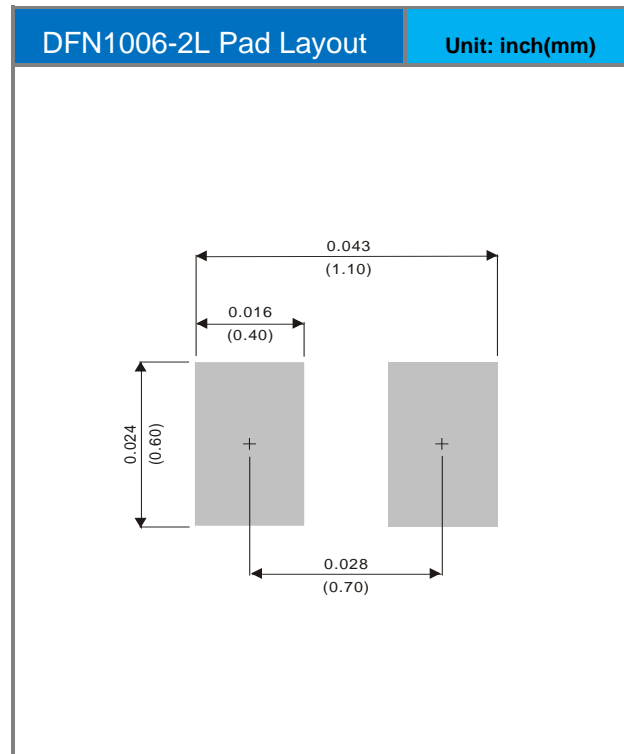
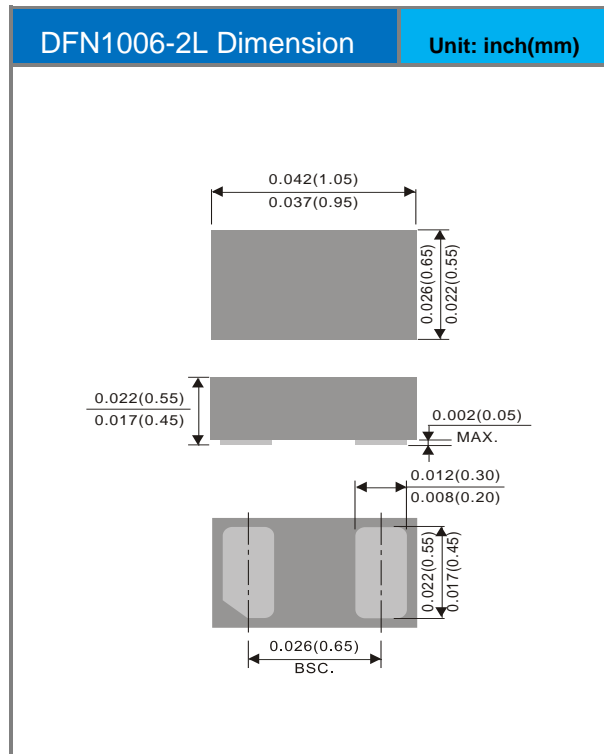
Fig.6 Typical Forward Characteristics

PZS52C3V9M1Q ~ PZS52C47M1Q Series

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PZS52CxxxM1Q	DFN1006-2L	10K pcs / 7" reel	See Table

Packaging Information & Mounting Pad Layout



PZS52C3V9M1Q ~ PZS52C47M1Q Series

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panjit\(强茂\)](#)