



*DC COMPONENTS CO., LTD.*

RECTIFIER SPECIALISTS

CDZ55C2V0S  
THRU  
CDZ55C75S

TECHNICAL SPECIFICATIONS OF SILICON PLANAR POWER ZENER DIODES

**FEATURES**

- \* Voltage Range: 2.0V to 75V
- \* Also available various dimension included:  
1206C (CDZ55Cxx series)  
0603C (CDZ55CxxT series)

**MECHANICAL DATA**

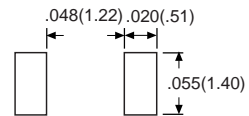
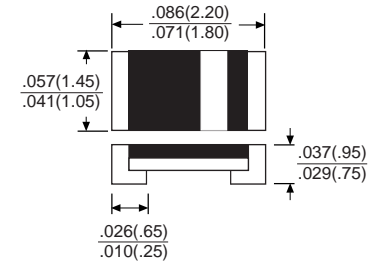
- \* Case: 0805C
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: Solder plated, solderable per MIL-STD-202E, Method 208 guaranteed
- \* Mounting position: Any
- \* Weight: 0.006 grams Approx.

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



0805C



Mounting Pad Layout

Dimensions in inches(millimeters)

	SYMBOL	VALUE	UNITS
Zener Current see Table "Characterisitics"			
Power Dissipation at Tamb=25°C	Ptot	500 <sup>(1)</sup>	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	-55 to + 175	°C
Thermal Resistance Junction to Ambient Air	RthA	- - 300 <sup>(1)</sup>	°C/W Typ. Min. Max.
Forward Voltage at IF=200mA	VF	- - 1.5	Volts Typ. Min. Max.

1)Valid Provided that leads are kept at ambient temperature.

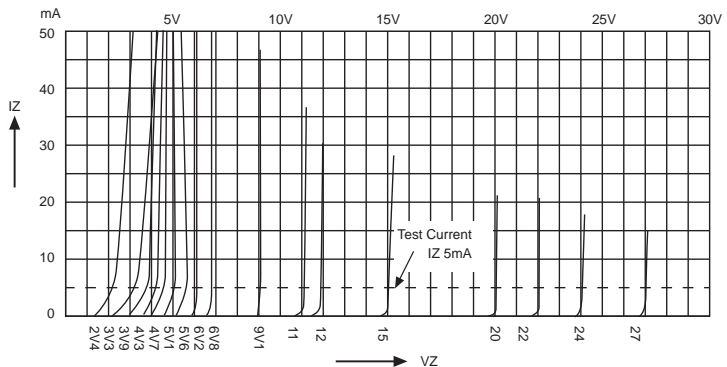
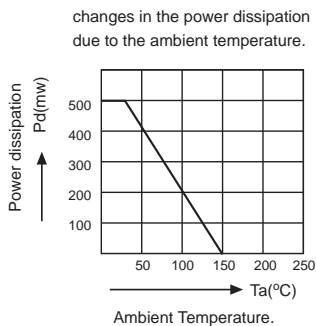
NOTE: Normal Tolerance ± 5%

# RATING AND CHARACTERISTIC CURVES (CDZ55CxxS SERIES)

TYPE	Nominal Zener Voltage		Zener Test Current $I_{ZT}$	Maximum Zener Impedance		$I_{ZK}$	Maximum Reverse Leakage Current	
	$V_Z @ I_{ZT}$			$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$	
	Min.	Max.	mA	Ohms	Ohms	mA	$\mu A$	Volts
CDZ55C2V0S	1.90	2.10	5	85	600	1	100	1
CDZ55C2V2S	2.09	2.31	5	85	600	1	75	1
CDZ55C2V4S	2.28	2.52	5	85	600	1	50	1
CDZ55C2V7S	2.57	2.84	5	85	600	1	10	1
CDZ55C3V0S	2.85	3.15	5	85	600	1	4	1
CDZ55C3V3S	3.14	3.47	5	85	600	1	2	1
CDZ55C3V6S	3.42	3.78	5	85	600	1	2	1
CDZ55C3V9S	3.71	4.10	5	85	600	1	2	1
CDZ55C4V3S	4.09	4.52	5	80	600	1	1	1
CDZ55C4V7S	4.47	4.61	5	70	600	1	0.5	1
CDZ55C5V1S	4.85	5.36	5	50	550	1	0.1	1
CDZ55C5V6S	5.32	5.88	5	30	450	1	0.1	1
CDZ55C6V2S	5.89	6.51	5	10	200	1	0.1	2
CDZ55C6V8S	6.46	7.14	5	8	150	1	0.1	3
CDZ55C7V5S	7.13	7.88	5	7	50	1	0.1	5
CDZ55C8V2S	7.79	8.61	5	7	50	1	0.1	6.2
CDZ55C9V1S	8.65	9.56	5	10	50	1	0.1	6.8
CDZ55C10S	9.50	10.50	5	15	70	1	0.1	7.5
CDZ55C11S	10.45	11.55	5	20	70	1	0.1	8.2
CDZ55C12S	11.40	12.60	5	20	90	1	0.1	9.1
CDZ55C13S	12.35	13.65	5	26	110	1	0.1	10
CDZ55C15S	14.25	15.75	5	30	110	1	0.1	11
CDZ55C16S	15.20	16.80	5	40	170	1	0.1	12
CDZ55C18S	17.10	18.90	5	50	170	1	0.1	13
CDZ55C20S	19.00	21.00	5	55	220	1	0.1	15
CDZ55C22S	20.90	23.10	5	55	220	1	0.1	16
CDZ55C24S	22.80	25.20	5	80	220	1	0.1	18
CDZ55C27S	25.65	28.35	5	80	220	1	0.1	20
CDZ55C30S	28.50	31.50	5	80	220	1	0.1	22
CDZ55C33S	31.35	34.65	5	80	220	1	0.1	24
CDZ55C36S	34.20	37.80	5	80	220	1	0.1	27
CDZ55C39S	37.05	40.95	2.5	90	500	0.5	0.1	29.3
CDZ55C43S	40.85	45.15	2.5	90	600	0.5	0.1	32.3
CDZ55C47S	44.65	49.35	2.5	110	700	0.5	0.1	35.3
CDZ55C51S	48.45	53.55	2.5	125	700	0.5	0.1	38.3
CDZ55C56S	53.20	58.80	2.5	135	1000	0.5	0.1	42
CDZ55C62S	58.90	65.10	2.5	150	1000	0.5	0.1	46.5
CDZ55C68S	64.60	71.40	2.5	200	1000	0.5	0.1	51
CDZ55C75S	71.25	78.75	2.5	250	1500	0.5	0.1	56.3

## Breakdown characteristics

CDZ55xxS-SERIES



## Disclaimer

Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold *DC COMPONENTS* harmless against all damages.

*DC COMPONENTS* disclaims any and all liability arising out of the application or use of any product, including consequential or incidental damages. Statement regarding the suitability of products for certain types of applications are based on *DC COMPONENTS*'s knowledge of typical requirements that are often placed on *DC COMPONENTS* products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

*DC COMPONENTS* reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein, and disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify *DC COMPONENTS*'s terms and conditions of purchase, including but not limited to the warranty expressed therein.

Unless otherwise in writing, *DC COMPONENTS* products are intended for use as general electronic components in standard applications ( eg: Consumer electronic, Computer equipment, Office equipment, etc.), and not recommended for use in a high specific application where a failure or malfunction of the device could result in human injury or death ( eg: Aerospace equipment, Submarine cables, Combustion equipment, Safety devices, Life support systems, etc.)

Customers using or selling *DC COMPONENTS* products not expressly indicated for use in such applications do so at their own risk. If customer intended to use *DC COMPONENTS* standard quality grade devices for applications not envisioned by *DC COMPONENTS*, please contact our sales representatives in advance.



*DC COMPONENTS CO., LTD.*

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Zener Diodes](#) category:*

*Click to view products by [DC Components](#) manufacturer:*

Other Similar products are found below :

[DL5234B](#) [1N4682](#) [1N4691](#) [1N4693](#) [1N4732A](#) [1N4733A-TR](#) [1N4736A](#) [1N4750A](#) [1N4759ARL](#) [1N5241B](#) [1N5365B](#) [1N5369B](#) [1N747A](#)  
[1N959B](#) [1N964B](#) [1N966B](#) [1N968B](#) [1N972B](#) [NTE5121A](#) [NTE5147A](#) [NTE5152A](#) [NTE5155A](#) [NTE5164A](#) [JANS1N4974US](#) [1N4692](#)  
[1N4700](#) [1N4702](#) [1N4704](#) [1N4711](#) [1N4714](#) [1N4737A](#) [1N4745ARL](#) [1N4752A](#) [1N4752ARL](#) [1N4760ARL](#) [1N5221B](#) [1N5236B](#) [1N5241BTR](#)  
[1N5242BTR](#) [1N5350B](#) [1N5352B](#) [1N961BRR1](#) [1N964BRL](#) [RKZ5.1BKU#P6](#) [3SMAJ5950B-TP](#) [3SMAJ5953B-TP](#) [3SMBJ5925B-TP](#)  
[TDZTR24](#) [441774C](#) [MMSZ5232BQ-13-F](#)