DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

CDZ55C2V0T THRU CDZ55C75T

TECHNICAL SPECIFICATIONS OF SILICON PLANAR POWER ZENER DIODES

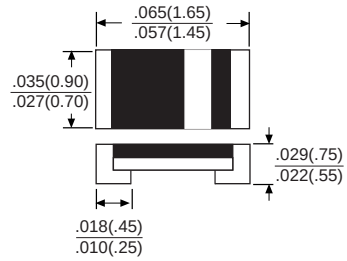
FEATURES

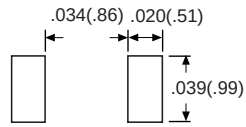
* Voltage Range:2.0V to 75V
* Also available various dimension included:
  0805C (CDZ55CxxS series)
  1206C (CDZ55Cxx series)

MECHANICAL DATA

* Case: 0603C
* Epoxy: UL 94V-0 rate flame retardant
* Terminals: Solder plated, solderable per MIL-STD-202E, Method 208 guaranteed
* Mounting position: Any
* Weight: 0.004 grams Approx.

0603C





Mounting Pad Layout

Dimensions in inches(millimeters)

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%.

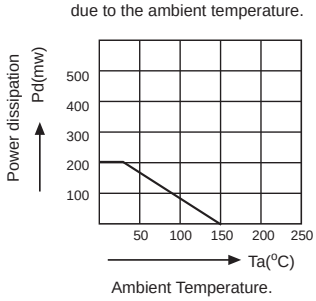
	SYMBOL	VALUE	UNITS
Zener Current see Table "Characterisitics"			
Power Dissipation at Tamb=25°C	Ptot	200(1)	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	-55 to + 175	°C
Thermal Resistance Junction to Ambient Air	RthA	-	°C/W Typ.
		-	Min.
		300(1)	Max.
Forward Voltage at IF=200mA	VF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

NOTE: Normal Tolerance ± 5%

RATING AND CHARACTERISTIC CURVES (CDZ55CxxT SERIES)

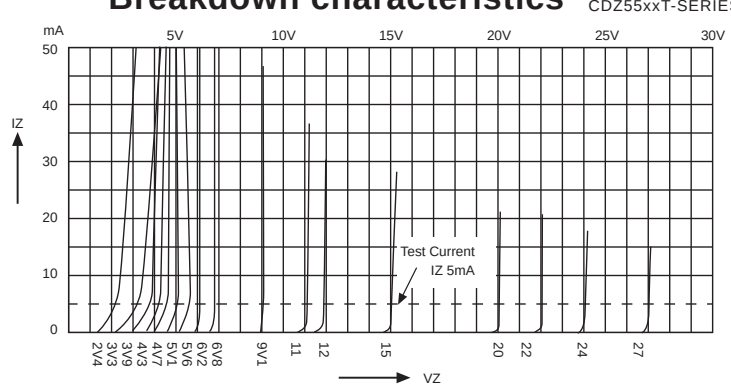
TYPE	Nominal Zener Voltage $V_{Z@I_{ZT}}$		Zener Test Current I_{ZT}	Maximum Zener Impedance $Z_{ZT@I_{ZT}}$	$Z_{ZK@I_{ZK}}$	I_{ZK}	Maximum Reverse Leakage Current I_R @ V_R	
	Min.	Max.	mA	Ohms	Ohms	mA	μA	Volts
CDZ55C2V0T	1.90	2.10	5	85	600	1	100	1
CDZ55C2V2T	2.09	2.31	5	85	600	1	75	1
CDZ55C2V4T	2.28	2.52	5	85	600	1	50	1
CDZ55C2V7T	2.57	2.84	5	85	600	1	10	1
CDZ55C3V0T	2.85	3.15	5	85	600	1	4	1
CDZ55C3V3T	3.14	3.47	5	85	600	1	2	1
CDZ55C3V6T	3.42	3.78	5	85	600	1	2	1
CDZ55C3V9T	3.71	4.10	5	85	600	1	2	1
CDZ55C4V3T	4.09	4.52	5	80	600	1	1	1
CDZ55C4V7T	4.47	4.61	5	70	600	1	0.5	1
CDZ55C5V1T	4.85	5.36	5	50	550	1	0.1	1
CDZ55C5V6T	5.32	5.88	5	30	450	1	0.1	1
CDZ55C6V2T	5.89	6.51	5	10	200	1	0.1	2
CDZ55C6V8T	6.46	7.14	5	8	150	1	0.1	3
CDZ55C7V5T	7.13	7.88	5	7	50	1	0.1	5
CDZ55C8V2T	7.79	8.61	5	7	50	1	0.1	6.2
CDZ55C9V1T	8.65	9.56	5	10	50	1	0.1	6.8
CDZ55C10T	9.50	10.50	5	15	70	1	0.1	7.5
CDZ55C11T	10.45	11.55	5	20	70	1	0.1	8.2
CDZ55C12T	11.40	12.60	5	20	90	1	0.1	9.1
CDZ55C13T	12.35	13.65	5	26	110	1	0.1	10
CDZ55C15T	14.25	15.75	5	30	110	1	0.1	11
CDZ55C16T	15.20	16.80	5	40	170	1	0.1	12
CDZ55C18T	17.10	18.90	5	50	170	1	0.1	13
CDZ55C20T	19.00	21.00	5	55	220	1	0.1	15
CDZ55C22T	20.90	23.10	5	55	220	1	0.1	16
CDZ55C24T	22.80	25.20	5	80	220	1	0.1	18
CDZ55C27T	25.65	28.35	5	80	220	1	0.1	20
CDZ55C30T	28.50	31.50	5	80	220	1	0.1	22
CDZ55C33T	31.35	34.65	5	80	220	1	0.1	24
CDZ55C36T	34.20	37.80	5	80	220	1	0.1	27
CDZ55C39T	37.05	40.95	2.5	90	500	0.5	0.1	29.3
CDZ55C43T	40.85	45.15	2.5	90	600	0.5	0.1	32.3
CDZ55C47T	44.65	49.35	2.5	110	700	0.5	0.1	35.3
CDZ55C51T	48.45	53.55	2.5	125	700	0.5	0.1	38.3
CDZ55C56T	53.20	58.80	2.5	135	1000	0.5	0.1	42
CDZ55C62T	58.90	65.10	2.5	150	1000	0.5	0.1	46.5
CDZ55C68T	64.60	71.40	2.5	200	1000	0.5	0.1	51
CDZ55C75T	71.25	78.75	2.5	250	1500	0.5	0.1	56.3

changes in the power dissipation due to the ambient temperature.



Breakdown characteristics

CDZ55xxT-SERIES



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