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- **1N4565AUR-1 THRU 1N4584AUR-1 AVAILABLE IN JAN, JANTX, JANTXV AND JANS PER MIL-PRF-19500/452**

- **TEMPERATURE COMPENSATED ZENER REFERENCE DIODES**

- **LEADLESS PACKAGE FOR SURFACE MOUNT**

- **LOW CURRENT OPERATING RANGE: 0.5 TO 4.0 mA**

- **METALLURGICALLY BONDED, DOUBLE PLUG CONSTRUCTION**

1N4565AUR-1 thru 1N4584AUR-1
and
CDLL4565 thru CDLL4584A

MAXIMUM RATINGS
Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C
DC Power Dissipation: 500mW @ +50°C
Power Derating: 4 mW / °C above +50°C

REVERSE LEAKAGE CURRENT
$I_R = 2\mu A$ @ 25°C & $V_R = 3Vdc$

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise speci½ed.

CDI TYPE NUMBER	ZENER TEST CURRENT I_{ZT}	EFFECTIVE TEMPERATURE COEFFICIENT	VOLTAGE TEMPERATURE STABILITY $^3V_{ZT}$ MAX -55° to + 100° (Note 1)	TEMPERATURE RANGE	MAX.DYNAMIC ZENER IMPEDANCE Z_{ZT} (Note 2)
	mA	%/°C	mV	°C	OHMS
CDLL4565 CDLL4565A	.5 .5	.01 .01	48 100	0 to + 75°C -55 to + 100°C	200 200
CDLL4566 CDLL4566A	.5 .5	.005 .005	24 50	0 to + 75°C -55 to + 100°C	200 200
CDLL4567 CDLL4567A	.5 .5	.002 .002	10 20	0 to + 75°C -55 to + 100°C	200 200
CDLL4568 CDLL4568A	.5 .5	.001 .001	5 10	0 to + 75°C -55 to + 100°C	200 200
CDLL4569 CDLL4569A	.5 .5	.0005 .0005	2.5 5	0 to + 75°C -55 to + 100°C	200 200
CDLL4570 CDLL4570A	1.0 1.0	.01 .01	48 100	0 to + 75°C -55 to + 100°C	100 100
CDLL4571 CDLL4571A	1.0 1.0	.005 .005	24 50	0 to + 75°C -55 to + 100°C	100 100
CDLL4572 CDLL4572A	1.0 1.0	.002 .002	10 20	0 to + 75°C -55 to + 100°C	100 100
CDLL4573 CDLL4573A	1.0 1.0	.001 .001	5 10	0 to + 75°C -55 to + 100°C	100 100
CDLL4574 CDLL4574A	1.0 1.0	.0005 .0005	2.5 5	0 to + 75°C -55 to + 100°C	100 100
CDLL4575 CDLL4575A	2.0 2.0	.01 .01	48 100	0 to + 75°C -55 to + 100°C	50 50
CDLL4576 CDLL4576A	2.0 2.0	.005 .005	24 50	0 to + 75°C -55 to + 100°C	50 50
CDLL4577 CDLL4577A	2.0 2.0	.002 .002	10 20	0 to + 75°C -55 to + 100°C	50 50
CDLL4578 CDLL4578A	2.0 2.0	.001 .001	5 10	0 to + 75°C -55 to + 100°C	50 50
CDLL4579 CDLL4579A	2.0 2.0	.0005 .0005	2.5 5	0 to + 75°C -55 to + 100°C	50 50
CDLL4580 CDLL4580A	4.0 4.0	.01 .01	48 100	0 to + 75°C -55 to + 100°C	25 25
CDLL4581 CDLL4581A	4.0 4.0	.005 .005	24 50	0 to + 75°C -55 to + 100°C	25 25
CDLL4582 CDLL4582A	4.0 4.0	.002 .002	10 20	0 to + 75°C -55 to + 100°C	25 25
CDLL4583 CDLL4583A	4.0 4.0	.001 .001	5 10	0 to + 75°C -55 to + 100°C	25 25
CDLL4584 CDLL4584A	4.0 4.0	.0005 .0005	2.5 5	0 to + 75°C -55 to + 100°C	25 25

NOTE 1 The maximum allowable change observed over the entire temperature range i.e.,the diode voltage will not exceed the speci½ed mV at any discrete temperature between the established limits, per JEDEC standard No.5.

NOTE 2 Zener impedance is derived by superimposing on I_{ZT} A 60Hz rms a.c. current equal to 10% of I_{ZT}.
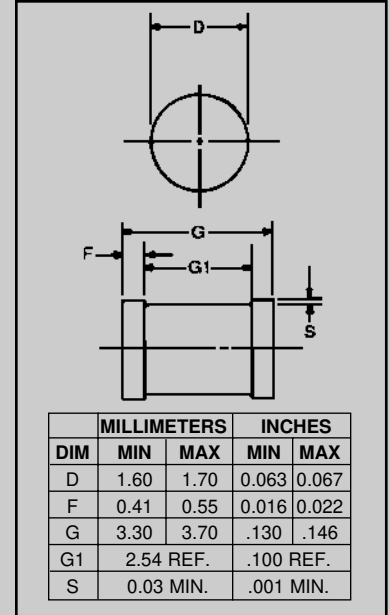
	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
D	1.60	1.70	0.063	0.067
F	0.41	0.55	0.016	0.022
G	3.30	3.70	.130	.146
G1	2.54 REF.		.100 REF.	
S	0.03 MIN.		.001 MIN.	

FIGURE 1

DESIGN DATA

CASE: DO-213AA, Hermetically sealed glass case. (MELF, SOD-80, LL34)
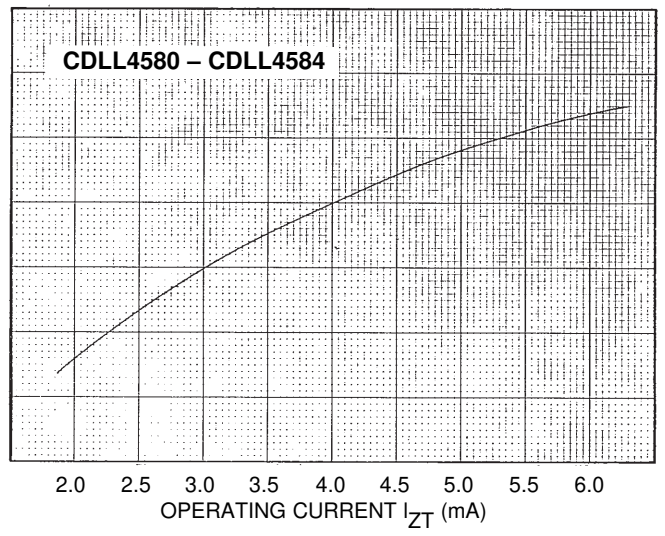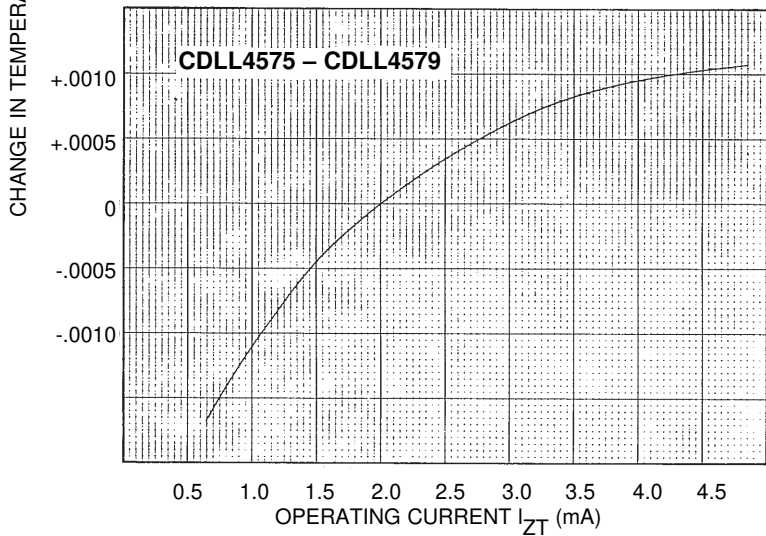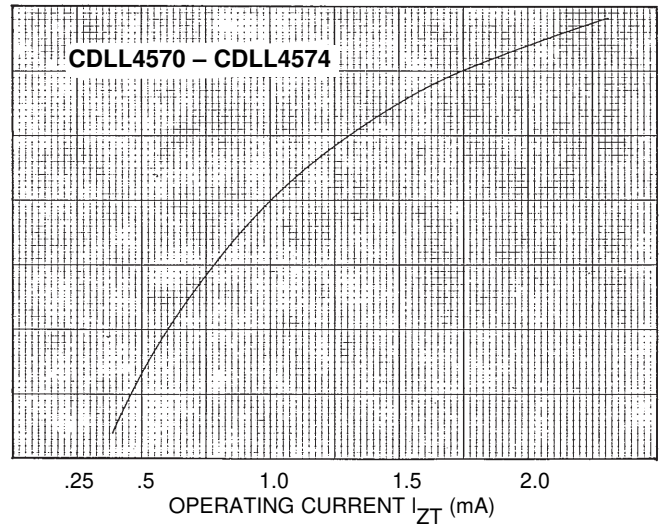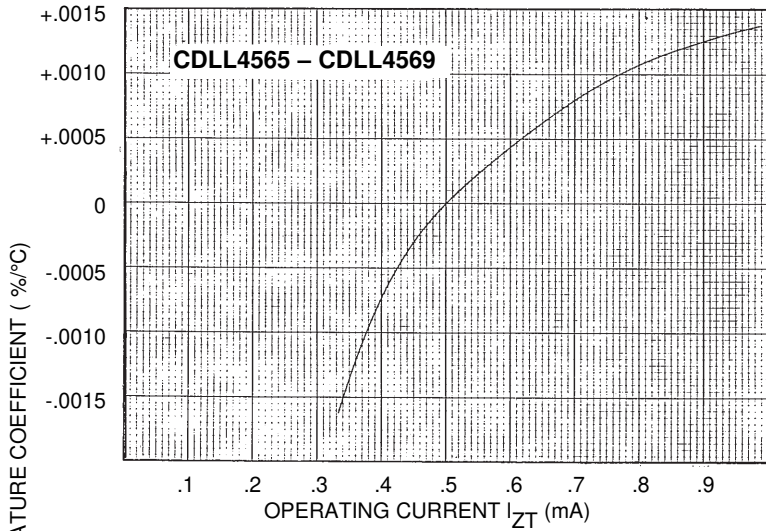
LEAD FINISH: Tin / Lead

POLARITY: Diode to be operated with the banded (cathode) end positive.
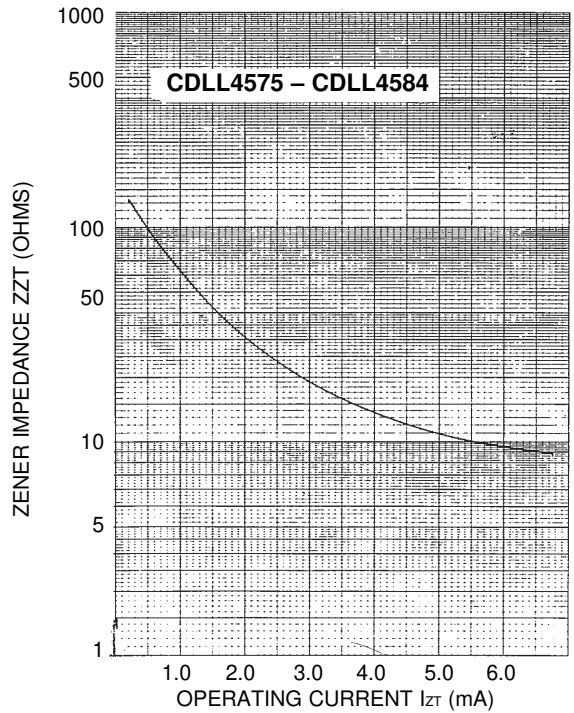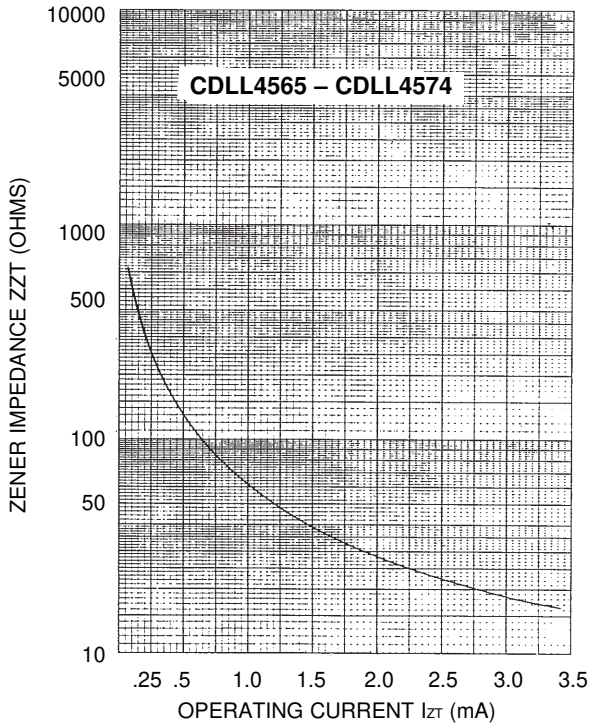
MOUNTING POSITION: Any.

MOUNTING SURFACE SELECTION: The Axial Coefficient of Expansion (COE) Of this Device is Approximately +6PPM/°C. The COE of the Mounting Surface System Should Be Selected To Provide A Suitable Match With This Device.

Microsemi

CDLL4565 thru CDLL4584A

CDLL4565 – CDLL4569

CDLL4570 – CDLL4574

CDLL4575 – CDLL4579

CDLL4580 – CDLL4584

CHANGE IN TEMPERATURE COEFFICIENT (%/°C)

OPERATING CURRENT I_{ZT} (mA)

TYPICAL CHANGE OF TEMPERATURE COEFFICIENT WITH CHANGE IN OPERATING CURRENT

CDLL4565 – CDLL4574

CDLL4575 – CDLL4584

ZENER IMPEDANCE ZZT (OHMS)

OPERATING CURRENT I_{ZT} (mA)

ZENER IMPEDANCE VS. OPERATING CURRENT

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