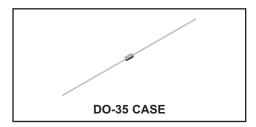
CCL0035 THRU CCL5750

SILICON CURRENT LIMITING DIODES





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CCL0035 thru CCL5750 are silicon field effect current regulator diodes designed for applications requiring a constant current over a wide voltage range. These devices are manufactured in the cost effective DO-35 double plug case which provides many benefits to the user including space savings and improved thermal characteristics. Special selections of Ip (regulator current) are available for critical applications. This series is the most cost effective of the current limiting diode family.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_L=75°C)

Peak Operating Voltage

Power Dissipation

Operating and Storage Junction Temperature

SYMBOL		UNITS
P_{OV}	100	V
P_{D}	600	mW
T _J , T _{stg}	-65 to +200	°C

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25 \mbox{\ensuremath{}^{\circ}}\mbox{\ensuremath{}^{\circ$

Туре		Regulato Current (Note 1)	: !	Minimum Dynamic Impedance Z _T @ V _T =25V	Minimum Knee Impedance Z _K @ V _K =6.0V	Maximum Limiting Voltage V _L @ I _L =0.8 x I _P MIN	Temperature Coefficient (Note 2)
	MIN (mA)	NOM (mA)	MAX (mA)	MΩ	MΩ	V	%/°C
CCL0035	0.01	0.035	0.06	8.0	4.0	0.4	+2.10 to +0.10
CCL0130	0.05	0.130	0.21	6.0	2.0	0.6	+2.10 to +0.10
CCL0300	0.20	0.310	0.42	4.0	1.0	0.8	+0.40 to -0.20
CCL0500	0.40	0.515	0.63	2.0	0.5	1.1	+0.15 to -0.25
CCL0750	0.60	0.760	0.92	1.0	0.2	1.4	0.0 to -0.32
CCL1000	0.88	1.100	1.32	0.65	0.1	1.7	-0.10 to -0.37
CCL1500	1.28	1.500	1.72	0.45	0.07	2.0	-0.13 to -0.40
CCL2000	1.68	2.000	2.32	0.35	0.05	2.3	-0.15 to -0.42
CCL2700	2.28	2.690	3.10	0.30	0.03	2.7	-0.18 to -0.45
CCL3500	3.00	3.550	4.10	0.25	0.02	3.2	-0.20 to -0.47
CCL4500	3.90	4.500	5.10	0.20	0.01	3.7	-0.22 to -0.50
CCL5750	5.00	5.750	6.50	0.05	0.005	4.5	-0.25 to -0.53

Notes: (1) Pulsed Method: Pulse Width (ms) = 27.5 divided by I_P NOM (mA) (2) The Temperature Coefficient is measured between + 25°C and +50°C.

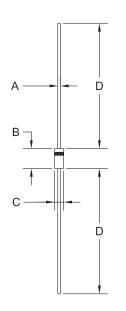
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DO-35 CASE - MECHANICAL OUTLINE

R1



DIMENSIONS				
	INCHES		MILLIM	ETERS
SYMBOL	MIN	MAX	MIN	MAX
Α	0.018	0.022	0.46	0.56
В	0.120	0.200	3.05	5.08
С	0.060	0.090	1.52	2.29
D	1.000	_	25.40	_

DO-35 (REV: R1)

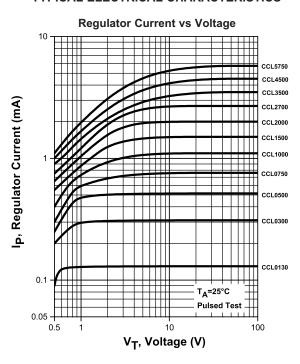
MARKING: FULL PART NUMBER

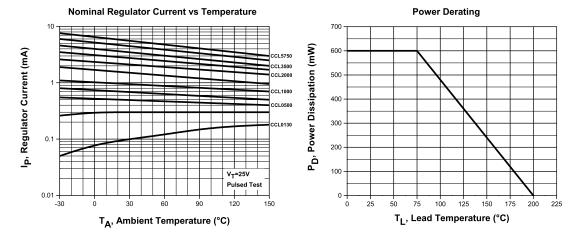
CCL0035 THRU CCL5750

SILICON CURRENT LIMITING DIODES



TYPICAL ELECTRICAL CHARACTERISTICS





R3 (18-June 2013)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)



Product End of Life Notification

PDN ID:	PDN01212
Notification Date:	2/22/22
Last Buy Date:	8/22/22
Last Shipment Date	2/22/23

Summary: The CCL0035 Current Limiting Diode (CLD) is discontinued and now classified as End Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CCL0035 BK	N/A
CCL0035 TR	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

CCC785 REV 002