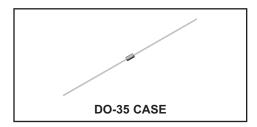
CCL0035 THRU CCL5750

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 _{stq}	-65 to +200	°C

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

Туре	Regulator 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) TC	
	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.

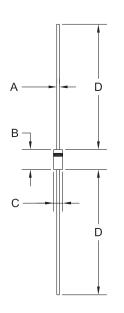
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DO-35 CASE - MECHANICAL OUTLINE

R1



DIMENSIONS									
	INC	HES	MILLIMETERS						
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)

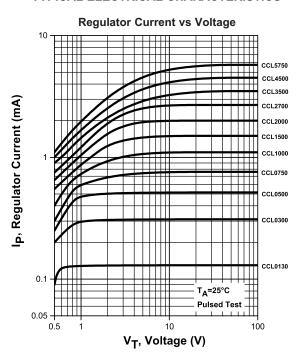
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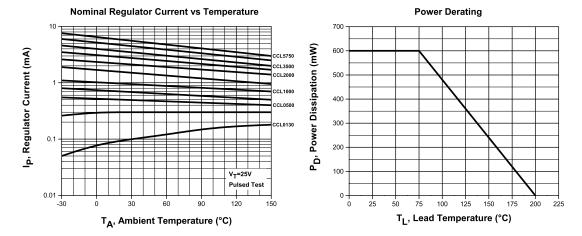
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TYPICAL ELECTRICAL CHARACTERISTICS





R3 (18-June 2013)