

DIGITRON SEMICONDUCTORS

CCL0035-CCL5750

CURRENT LIMITING DIODE

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).

Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Peak operating voltage	POV	100	V
Power dissipation	P _d	600	mW
Operating junction and storage temperature range	T _J , T _{stg}	-65 to +200	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

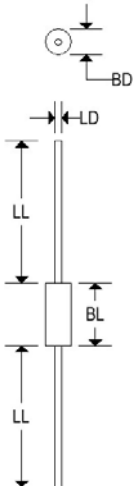
Part number	Regulator current ⁽¹⁾			Minimum dynamic impedance	Minimum knee impedance	Maximum limiting voltage	Temperature coefficient ⁽²⁾
	I _p @ V _T = 25V			Z _T @ V _T = 25V	Z _k @ V _k = 6.0V	V _L @ I _L = 0.8 I _p min	TC
	mA			MΩ	MΩ	V	%/°C
	Min	Nom	Max				
CCL0035	0.010	0.035	0.060	8.0	4.0	0.4	2.10 to 0.10
CCL0130	0.050	0.130	0.210	6.0	2.0	0.6	2.10 to 0.10
CCL0300	0.200	0.310	0.420	4.0	1.0	0.80	0.40 to -0.20
CCL0500	0.400	0.515	0.630	2.0	0.5	1.1	0.15 to -0.25
CCL0750	0.600	0.760	0.920	1.0	0.2	1.4	0.0 to -0.32
CCL1000	0.880	1.100	1.320	0.65	0.1	1.7	-0.10 to -0.37
CCL1500	1.280	1.500	1.720	0.45	0.070	2.0	-0.13 to -0.40
CCL2000	1.680	2.000	2.320	0.35	0.050	2.3	-0.15 to -0.42
CCL2700	2.280	2.690	3.100	0.30	0.030	2.7	-0.18 to -0.45
CCL3500	3.000	3.550	4.100	0.25	0.020	3.2	-0.20 to -0.47
CCL4500	3.900	4.500	5.100	0.20	0.010	3.7	-0.22 to -0.50
CCL5750	5.000	5.750	6.500	0.05	0.005	4.5	-0.25 to -0.53

Note 1: Pulsed method: pulse width(ms) = 27.5/ I_p Nom (mA)

Note 2: The temperature coefficient is measured between the following points: +25°C, +50°C

MECHANICAL CHARACTERISTICS

Case	DO-35
Marking	Body painted, alpha-numeric
Polarity	Cathode band



	DO-35			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.055	0.090	1.400	2.290
BL	0.120	0.200	3.050	5.080
LD	0.018	0.022	0.460	0.560
LL	1.000	1.500	25.400	38.100