

FEATURES

- LOW COST
- HIGH RELIABILITY
- SMALLER CASE SIZE THAN COMPETITION
- SPECIAL SELECTIONS AVAILABLE
- SUPERIOR LOT TO LOT CONSISTENCY
- SURFACE MOUNT DEVICES AVAILABLE

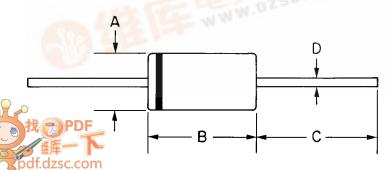
DESCRIPTION

The CENTRAL SEMICONDUCTOR CMCL1300 series types 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 a direct replacement for MCL1300 through MCL1304 types, respectively. Lower cost units are available in the CCL0035 series.

MAXIMUM RATINGS (T _L = 75°C)	SYMBOL		UNIT
Peak Operating Voltage	POV	100	V
Power Dissipation	P_{D}	600	mW
Operating and Storage Junction Temperature	TJ, TSTG	-65 TO +200	°C

ELECTRICAL CHARACTERISTICS $(T_A = 25^{\circ}C)$

TYPE NO.	REGULATOR CURRENT		IMPEDANCE	KNEE IMPEDANCE Z _K @ V _K = 6.0V M Ω	LIMITING VOLTAGE		
	Ip @ V _T = 25V				VL @ IL = 0.8 Ip MIN		
mA		4.075			V		
	MIN	NOM	MAX	MIN	MIN	MAX	
CMCL1300	0.20	0.50	0.80	4.00	0.50	1.0	
CMCL1301	0.40	1.00	1.60	0.80	0.20	1.5	
CMCL1302	1.40	2.00	2.60	0.40	0.10	2.0	
CMCL1303	2.40	3.00	3.60	0.30	0.05	2.0	
CMCL1304	3.40	4.00	4.60	0.25	0.025	2.5	



		INC	HES	MILLIMETERS		
	DIM	MIN	MAX	MIN	MAX	
	Α	.060	.080	1.52	2.03	
	В	.140	.160	3.60	4.10	
	C	1.0	_	25.4		
ĺ	D	.018	.022	0.46	0.56	