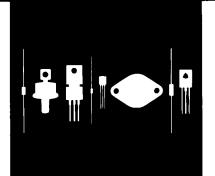
Central Semiconductor Corp.

Central Semiconductor Corp. Central [™] Semiconductor Corp.

145 Adams Avenue Hauppauge, New York 11788



CMCL1300 THRU CMCL1304

CURRENT LIMITING DIODE

JEDEC DO-35 CASE

FEATURES

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

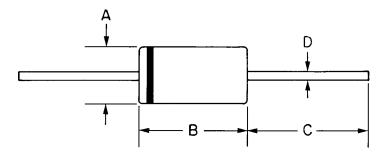
DESCRIPTION

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 ($T_L = 75^{\circ}$ 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.	PE NO. REGULATOR CURRENT Ip @ V _T = 25V		DYNAMIC IMPEDANCE	KNEE IMPEDANCE	LIMITING VOLTAGE	
:			Z _T @ V _T = 25V	Z _K @ V _K = 6.0V	VL @ IL = 0.8 IP MIN	
		mA		Μ Ω	ΜΩ	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



	INCHES		MILLIMETERS		
DIM	MIN	MAX	MIN	MAX	
Α	.060	.080	1.52	2.03	
В	.140	.160	3.60	4.10	
С	1.0	_	25.4		
D	.018	.022	0.46	0.56	

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 quick 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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

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)