



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Wide operating voltage range
- Immediate ture-on
- Negative temperature coefficient
- ESD Protected up to 6KV (HBM)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance: Junction to ambient :125°C/W

RATING	SYMBOL	VALUE	UNITS	
Anode-Cathode Voltage	Vak max	45	V	
Reverse Voltage	V _R	500	mV	

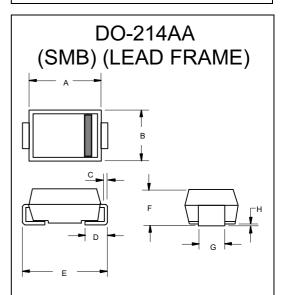
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

Marking Code: B203

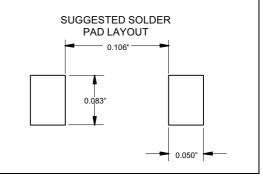
CLD20B

20mA Current

Limiting Diode



	DIMENSIONS				
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.160	.185	4.06	4.70	
В	.130	.155	3.30	3.94	
С	.006	.012	0.15	0.31	
D	.030	.060	0.76	1.52	
E	.200	.220	5.08	5.59	
F	.079	.096	2.00	2.44	
G	.075	.087	1.91	2.21	
Н	.002	.008	0.05	0.203	



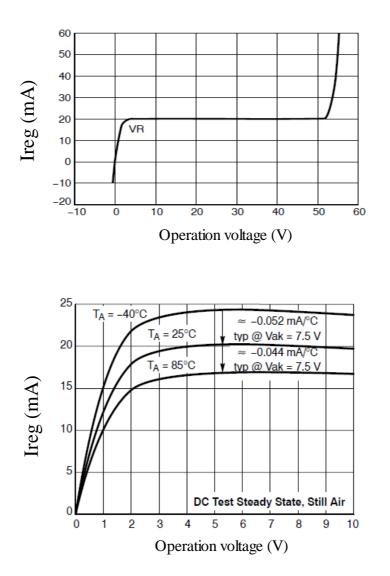


CLD20B

Part number	Steady Current Ireg(SS)		Limiting Voltage @ 80% Ireg	Test Voltage	Peak Operating Voltage	Rating Voltage	
	Min	Тур.	Max	Max			Max
	(mA)	(mA)	(mA)	(V)	(V)	(V)	(V)
CLD20B	17	20	23	4.5	10	45	25

ELECTRICAL CHARACTERISTICS @25°C

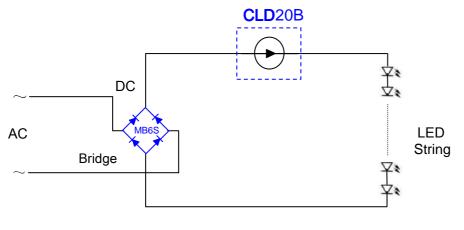
Performance curve for Current Limiting Diode





CLD20B

Application



Type Application Circuit (20mA each LED String)

- Number of LED's that can be connected is determined by: LEDs=(Vdc-Vak)/LED $\rm V_F$
- Example: Vac=110V,CLD Vak=45V,LED VF=3.5V@20mA Using our P/N:MB6S bridge for whole wave rectifier After rectifier, Output Vdc=150V (150Vdc-45Vdc)/3.5Vdc=30 LEDs in series.



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel:3Kpcs/Reel

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Current Regulator Diodes category:

Click to view products by Micro Commercial Components (MCC) manufacturer:

Other Similar products are found below :

 CMJ1000 TR
 CDCLD400 TR13 PBFREE
 CDCLD200 TR13 PBFREE
 CDCLD100 TR13 PBFREE
 CDCLD500 TR13 PBFREE
 CDCLD080

 TR13 PBFREE
 CDCLD120 TR13 PBFREE
 1N5307 BK PBFREE
 1N5313
 1N5292UR-1
 1N5305-1
 E-101
 E-102
 E-123
 E-152
 E-153
 E

 202
 E-301
 E-352
 E-501
 E-562
 E-701
 S-101T
 S-102T
 S-152T
 S-183T
 S-301T
 S-452T
 S-822T
 MMTV431A
 CMJ3500 TR
 S-123T

 CMJ2000 TR
 CMJH150 TR
 1N5287
 1N5311
 1N5314
 CMJ0300 TR
 CMJ0500 TR
 CMJ1500 TR
 PBFREE
 CMJ5750 TR

 CMJA5050 TR13 PBFREE
 CMJ4500 TR
 ZXCT1009FTA
 CMJ4500 TR
 ZXCT1009FTA