

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC) CLD20B-TP

For any questions, you can email us directly: sales@integrated-circuit.com





Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 CLD20B

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

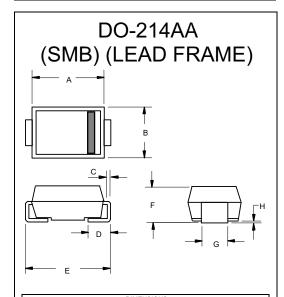
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

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

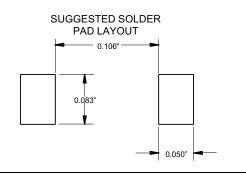
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

Marking Code: B203

20mA Current Limiting Diode



DIMENSIONS					
	INCHES		MM		
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	
Е	.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	



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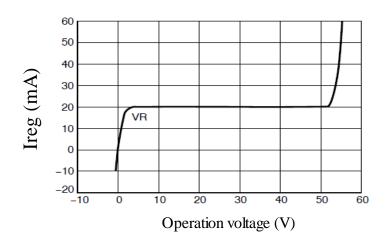
CLD20B

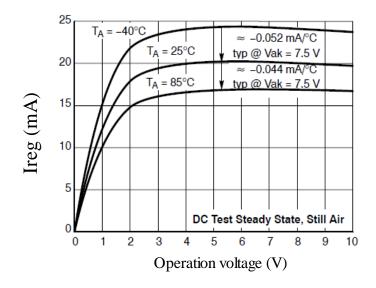


ELECTRICAL CHARACTERISTICS @25°C

Part number	Steady Current Ireg(SS)		Limiting Voltage @ 80% lreg	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

Performance curve for Current Limiting Diode





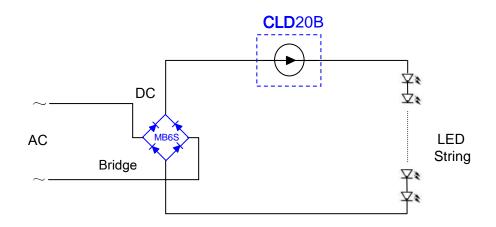
Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite Datasheet of CLD20B-TP - DIODE CURRENT LIMITING 45V SMB

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



CLD20B

Application



Type Application Circuit (20mA each LED String)

Number of LED's that can be connected is determined by:

LEDs=(Vdc-Vak)/LED 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.

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Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

Datasheet of CLD20B-TP - DIODE CURRENT LIMITING 45V SMB

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Ordering Information

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

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