



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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

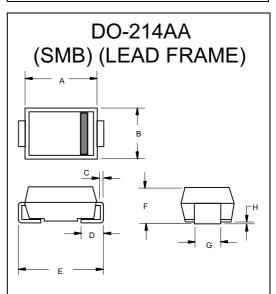
Operating Temperature: -55°C to +150°C
Storage Temperature: -55°C to +150°C

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

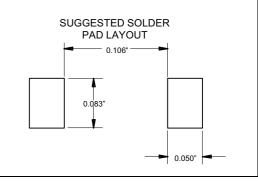
Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

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	
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	



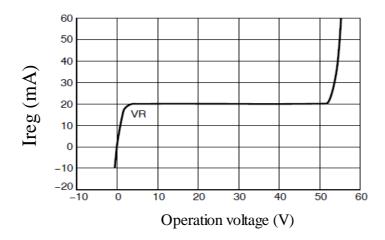
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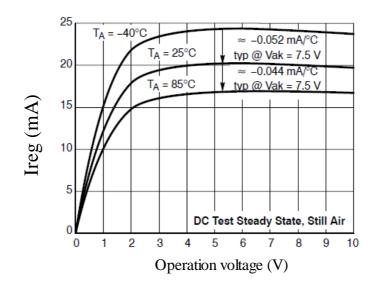


ELECTRICAL CHARACTERISTICS @25°C

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

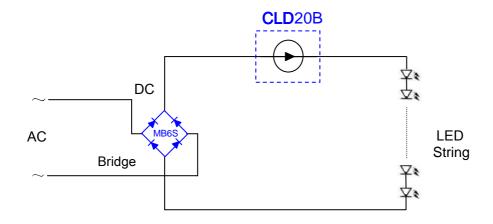






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Application



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.



Ordering Information

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

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