

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CLD₂₀

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)

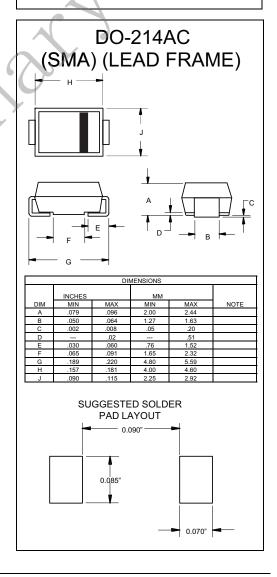
Maximum Ratings

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.

20mA Current Limiting Diode



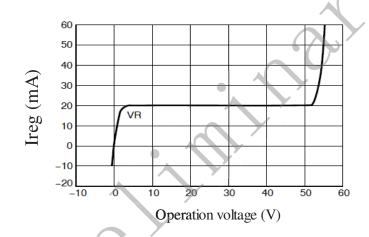
CLD20

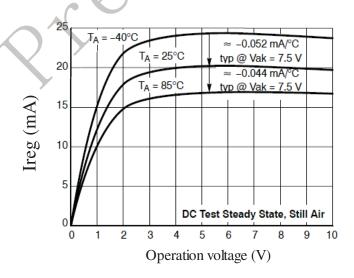


ELECTRICAL CHARACTERISTICS @25°C

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)
CLD20	17	20	23	4.5	10	45	25

Performance curve for Current Limiting Diode

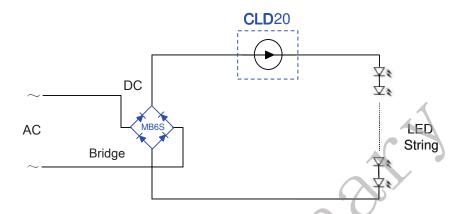






CLD₂₀

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&Reel5Kpcs/Reel

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