

Micro Commercial Components



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

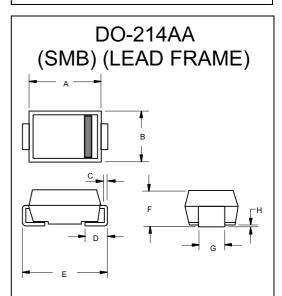
RATING	SYMBOL	VALUE	UNITS
Anode-Cathode Voltage	Vak max	45	V
Reverse Voltage	V _R	500	mV

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

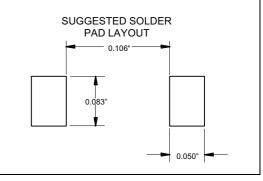
CLD20B

20mA Current

Limiting Diode



DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
А	.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			



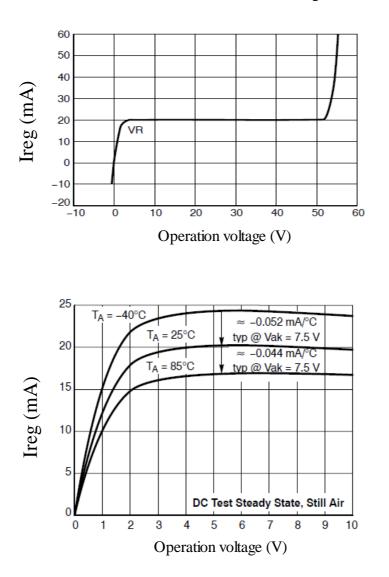
CLD20B



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

ELECTRICAL CHARACTERISTICS @25°C

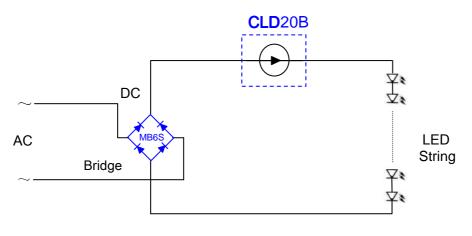
Performance curve for Current Limiting Diode





CLD20B

Application



Type Application Circuit (20mA each LED String)

- Number of LED's that can be connected is determined by: LEDs=(Vdc-Vak)/LED ${\rm V}_{\rm F}$
- 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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