



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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)

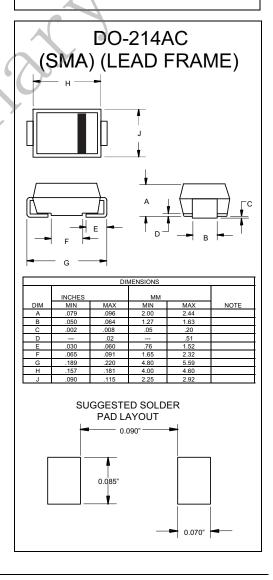
Maximum Ratings

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



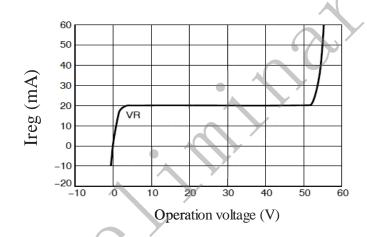
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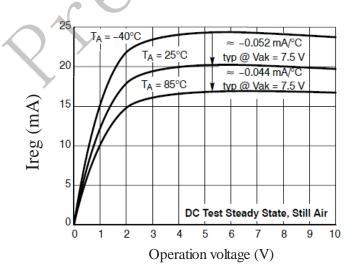


ELECTRICAL CHARACTERISTICS @25°C

| Part number | Steady Current lreg(SS) | | | Limiting Voltage @ 80% lreg | Test Voltage | Peak Operating Voltage | Rating Voltage |
|-------------|-------------------------|------|------|--------------------------------|--------------|------------------------------|----------------|
| | Min | Typ. | Max | Max | (1/1) | (1/1) | Max |
| Ol Doo | (mA) | (mA) | (mA) | (V) | (V) | (V) | (V) |
| CLD20 | 17 | 20 | 23 | 4.5 | 10 | 45 | 25 |

Performance curve for Current Limiting Diode

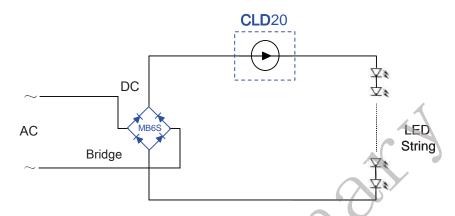






CLD₂₀

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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