

UNCONTROLLED DOCUMENT

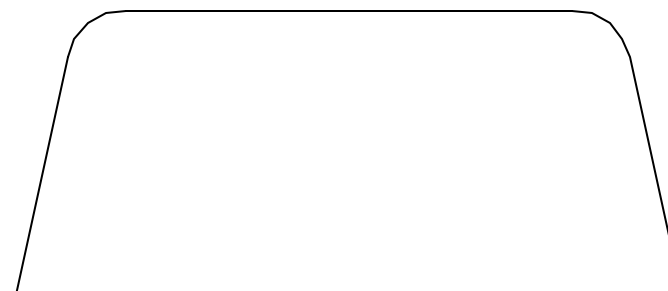
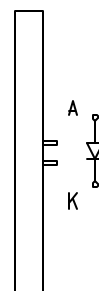
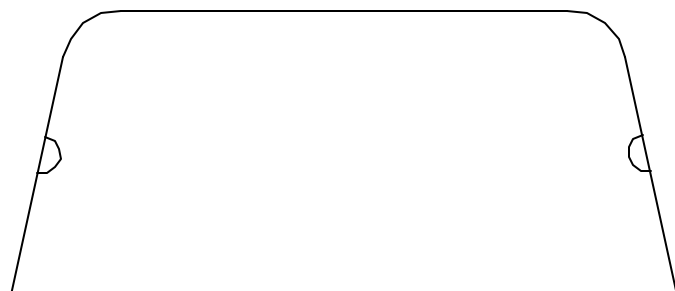
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PART NUMBER

REV.

SSB-CEL8738SOW

PRELIMINARY IN P/N DIR



| ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ PER MODULE |                |     |     |                        | $I_f = 20\text{ mA}$   |
|-------------------------------------------------------------------|----------------|-----|-----|------------------------|------------------------|
| PARAMETER                                                         | MIN            | TYP | MAX | UNITS                  | TEST COND              |
| PEAK WAVELENGTH                                                   |                | 605 |     | nm                     |                        |
| FORWARD VOLTAGE                                                   |                | 2.0 | 2.5 | $V_f$                  |                        |
| REVERSE VOLTAGE                                                   | 5              |     |     | $V_r$                  | $V_r = 100\mu\text{A}$ |
| LUMINOUS INTENSITY                                                |                | TBA |     | $\text{cd}/\text{m}^2$ | $I_f = 20\text{ mA}$   |
| EMITTED COLOR:                                                    | ORANGE         |     |     |                        |                        |
| REFLECTOR FINISH:                                                 | WHITE DIFFUSED |     |     |                        |                        |

| LIMITS OF SAFE OPERATION AT 25°C PER LED |              |       |
|------------------------------------------|--------------|-------|
| PARAMETER                                | MAX          | UNITS |
| PEAK FORWARD CURRENT *                   | 150          | mA    |
| STEADY CURRENT                           | 25           | mA    |
| POWER DISSIPATION                        | 105          | mW    |
| DERATE FROM 25°C                         | -1.2         | mW/°C |
| OPERATING TEMP.                          | - 20 TO + 70 | °C    |
| STORAGE TEMP.                            | - 30 TO + 80 | °C    |
| SOLDERING TEMP.                          | + 240        | °C    |
| 2.0mm FROM BODY                          | 3 SEC. MAX   |       |
| * t<10μs                                 |              |       |

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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION -0.00 MAX.= +0.00 -DECIMAL PRECISION

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3.5" x 1.5" CUSTOM LED BACKLIGHT,

605nm SUPER ORANGE CHIPS, WHITE REFLECTOR.

## CONFIDENTIAL INFORMATION

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## RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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SCALE: N/A

JD