

STATIC WHITE LIGHT ENGINES

HIGH PERFORMANCE LINEAR LIGHT ENGINE

AUDAX
ELECTRONICS

LIGHT ENGINE 596.9 x 13 mm, 32 LEDs, CC, 20-24Vf, 90CRI

Issue Date	August, 2023
Issued by	Vegner, I.

Applications

- Office Linear Lighting
- Pendant Light
- Troffers

Characteristics

- Module Efficacy – up to 145 lm/W
- L70 > 50.000 hours
- CRI > 90
- 03 SDCM
- CCT 3,000K
- 05 years warranty
- High conductive thermal tape interface



DRIVE CURRENTS

Parameter	Nominal	Max
LIGHT ENGINE 596.9 x 13 mm, 32 LEDs, CC, 20-24Vf	240 mA	960 mA

MODULE TEMPERATURES

Parameter	Nominal	Max
Tc (case temperature at Tc point)	75 °C	90 °C

PRODUCT PART NUMBER

80552200100

3,000 K

Connectors on the edges

80552500100

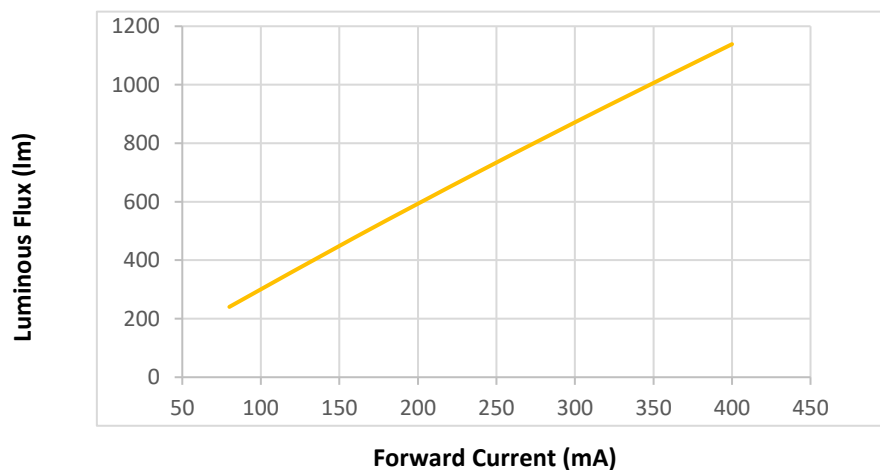
3,000 K

Fully populated w/ connectors

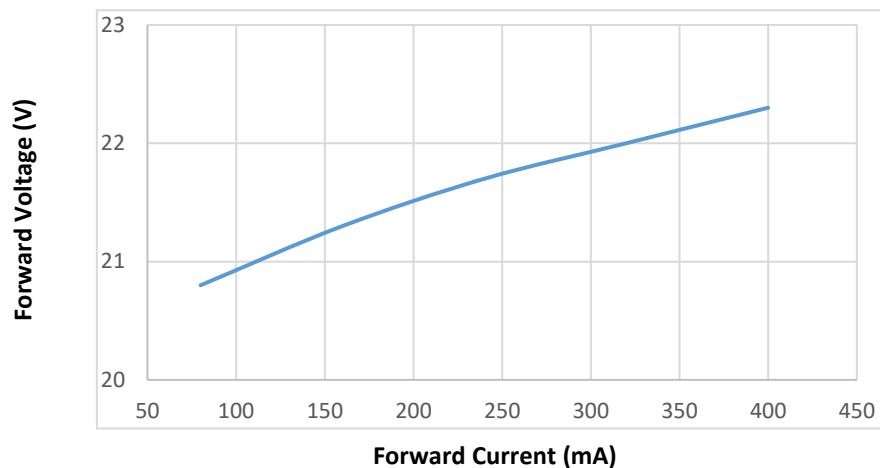
TECHNICAL INFORMATION

CCT	LED Driver Current (mA)	#LEDs	Luminous Flux (lm)	Luminous Flux Density (lm/ft)	Forward Voltage (V)	LED Current (mA)	TC (°C)	Power (W)	Power Density (W/ft)	Efficacy (lm/W)
3,000K	80	32	241	120	20.8	20	75°C	1.7	0.8	145
3,000K	160	32	478	557	21.3	40	75°C	3.4	3.1	140
3,000K	240	32	706	1,046	21.7	60	75°C	5.2	6.2	136
3,000K	320	32	926	1,609	22.0	80	75°C	7.0	10.0	131
3,000K	400	32	1,139	569	22.3	100	75°C	8.9	4.5	128

Luminous Flux (lm) x Forward Current (mA) (Tc 75°C)



Forward Voltage (V) x Forward Current (mA) (Tc 75°C)

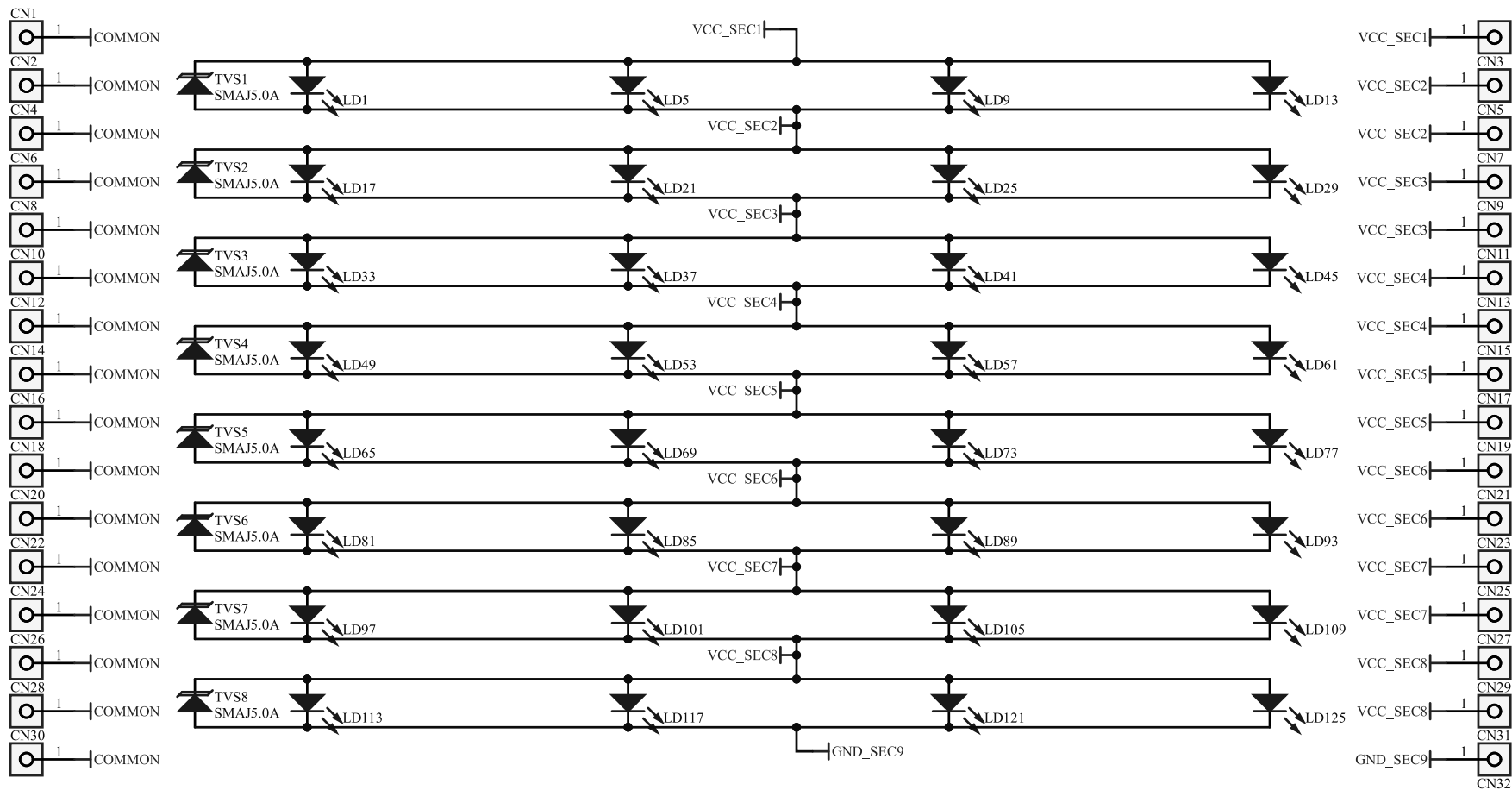


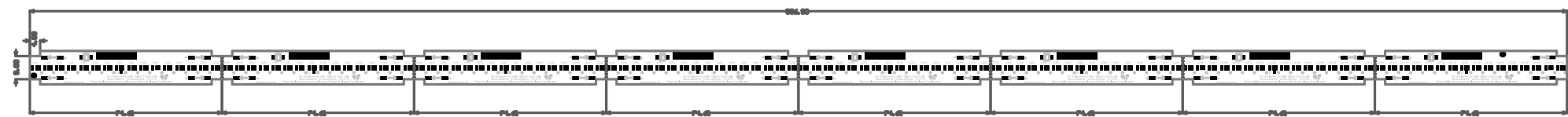
LED TYPE

Manufacturer: CREE
LED Series: J 2835 R Class

LED COLOR VARIANCE

CCT	Center Point		Center	3 STEPS	3 STEPS +/- 0.005
3,000K	0.4338	0.4030	3050K	2968-3136K	2884-3228K





CONNECTOR INFORMATION

Parameter	Nominal	Max
Wire gauge	24 AWG	22 AWG
Wire gauge	0.2mm ²	0.3mm ²

Both stranded or solid wires can be used.

To supply power to the board from the left side, a jumper wire between "-" (top) and "+" (bottom) is needed on the last board segment. The bottom connectors are common to each other to work as a return current path.

Jumper wire required on opposite side from feed wires to close circuit

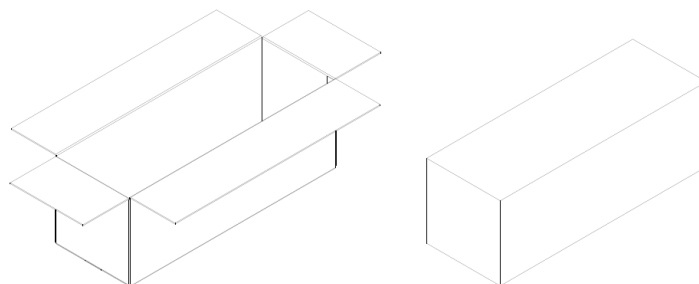
THERMAL TAPE

Typical Properties

Property	Standard	Unit	TT900
Color	-	-	White
Fillers	-	-	Ceramic
Thickness	-	mm/inches	0,25/0,010"
Volume Resistivity	-	ohms.cm	> 10 ¹²
90° Peel Test (@ 60°C)	-	/25mm	> 2.650
Adhesion Strength	-	N/25mm	> 18,0
Dielectric Strength	ASTM D149	Kv/mm	> 4,0
Thermal Impedance	AMD2240	°C.in ² /W	0,85
Thermal Conductivity	ASTM D22470	W/m.k	> 1,0
Thermal Resistance	-	°C	-20 to 120
Flammability Class	UL 94	-	V0

PACKING

CARDBOARD BOX 700mm x 250mm x 250mm



Minimum Packing Quantity: 400pcs

*Each cardboard box contains only one CCT/Part Number