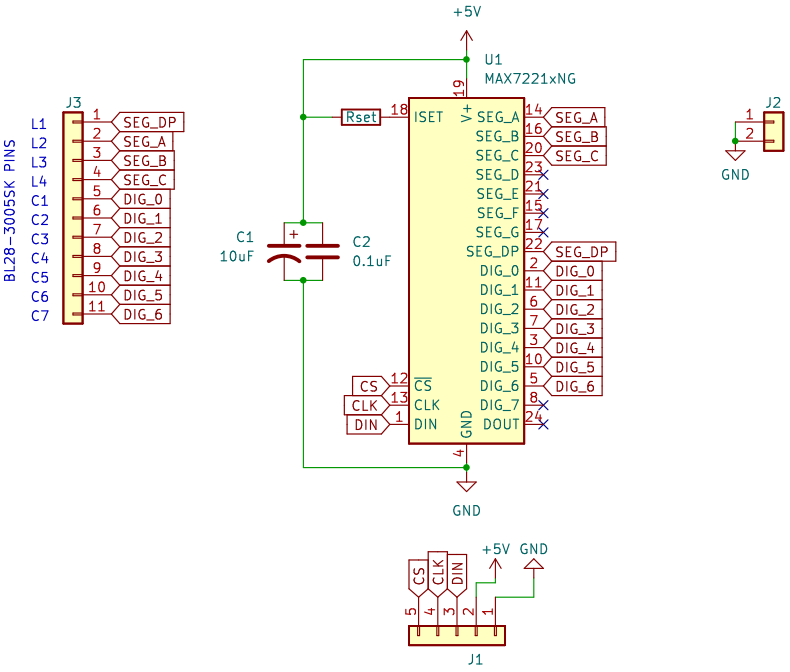
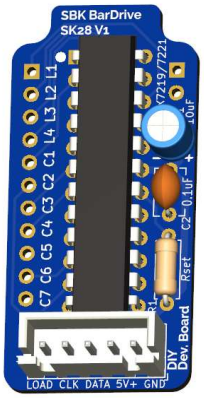


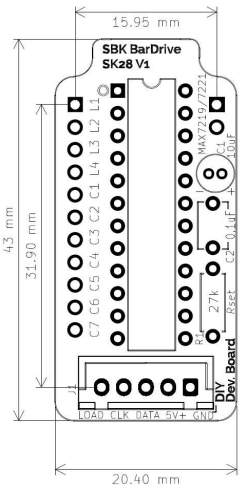
Table 11. R_{SET} vs. Segment Current and LED Forward Voltage

I_{SEG} (mA)	V_{LED} (V)				
	1.5	2.0	2.5	3.0	3.5
40	12.2	11.8	11.0	10.6	9.69
30	17.8	17.1	15.8	15.0	14.0
20	29.8	28.0	25.9	24.5	22.6
10	66.7	63.7	59.3	55.4	51.2

Note: *R_{SET} values are in Kilo Ohms (kΩ)*

Reference : *19-4452; Rev 6; 8/21*





PCB:				SBK BarDrive 28 V1
Date:				2025-06-15 0:00
Component Count:				7
Collated Components:				
Item	Qty	Ref.	Value	Part
1	1	C1	10uF	Electrolytic capacitor : THT_Radial_D4.0mm_H7.0mm_P1.50mm
2	1	C2	0.1uF	Ceramic capacitor : THT_D5.1mm_W3.2mm_P5.00mm
3	1	J1	JST-XH_1x05	JST-XH PCB terminal male plug : THT_1x05_P2.50mm_Vertical
4	1	J2	Conn_01x02	optional 2.54mm header
5	1	J3	Conn_01x11	optional 2.54mm header
6	1	R1	Rset	1/4W resistor : THT_L6.3mm_D2.5mm_P7.62mm_Horizontal
7	1	U1	MAX7219xNG MAX7221xNG	MAX72xx ICI eds driver : DIP-24_W7.62mm

SBK BarDrive SK28 V1 PCB
with MAX7219/MAX7221 IC leds driver
to use as a backpack for compatible SBK BarMeter 28 PCBs
or with any other compatible leds displays
Smart Builds & Kits

Sheet: /
File: SBK_BarDrive SK28 V1.kicad_sch

Title: SBK BarDrive SK28 V1

Size: USLetter	Date: 2025-06-14	**Rev: 0**
KiCad E.D.A. kicad 7.0.9		Id: 1/1