



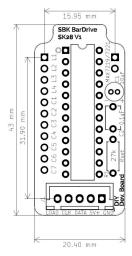
Table 11. RSET vs. Segment Current and **LED Forward Voltage**

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 ($k\Omega$)

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





PCB: Date:				SBKBarDrive 64 V1 2025-06-15 8:45	
Component Count:				7	
Collat	ed Components				
Item	Qty	Ref.	Value	Part	
1	1	C1	10uF	Electrolytic capacitor: THT Radial D4.0mm H7.0mm P1.50mm	
2	1	(2	0.1uF	Ceramic capacitor : THT D5.1mm W3.2mm P5.00mm	
3	1	J1	JST-XH_1x05	JST-XH PCBterminal male plug: THT_1x05_P2.50mm_Vertical	
4	1	12	Conn 01x02	optional 2.54mm header	
5	1	ß	Conn 01x11	optional 2.54mm header	
6	1	R1	Rset	1/4Wresistor: THT L6.3mm D2.5mm P7.62mm Horizontal	
7	1	U1	MAX7219xNG MAX7221xNG	MAX72xx1Cledsdriver: 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

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 ld: 1/1