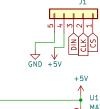
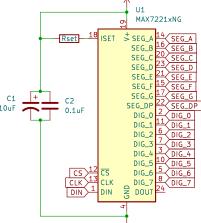


J2





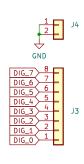
GND

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

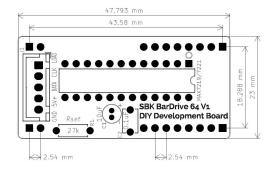
I <sub>SEG</sub> (mA)	V <sub>LED</sub> (V)					
	1.5	2.0	2.5	3.0	3.5	
40	12.2	11.8	11.0	10.6	9.69	
30	30 17.8		15.8	15.0	14.0	
20 29.8		28.0	25.9	24.5	22.6	
10	66.7	63.7	59.3	55.4	51.2	

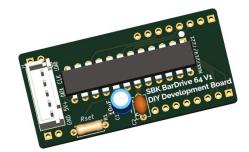
Note:  $R_{SET}$  values are in Kilo Ohms ( $k\Omega$ )

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



POB:				SEKBarDrive 64 V1	
Component Count:			3	7	
Collated	Components		3		
Item	Qty	Ref.	Value	Part	
1	1	C1	10uF	Electrolytic capacitor: THT Radial D4.0mm H7.0mm P1.50mm	
2	1	02	0.1uF	Ceramic capacitor : THT D5.1mm W8.2mm P5.00mm	
3	1	J1	JST-XH 1x05	JST-XH PCBterminal male plug: THT 1x05 P2.50mm Vertical	
4	1	J2	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 must be selected according to reference table	
7	1	U1	MAX7219xNG MAX7221xNG	MAX72xxICleds driver : DIP-24_W7.62mm	





SBK BarDrive 64 V1 PCB

MAX7219/MAX7221 ICs leds driver PCB.

To use with as a backpack with compatible SBK BarMeter xx PCBs or any other compatible leds displays

Smart Builds & Kits

File: SBK\_BarDrive 64 V1.kicad\_sch

Title: Schemtaics and dimensions

Size: USLetter Date: 2025-06-16 KiCad E.D.A. kicad 7.0.9 Rev: 1 ld: 1/1