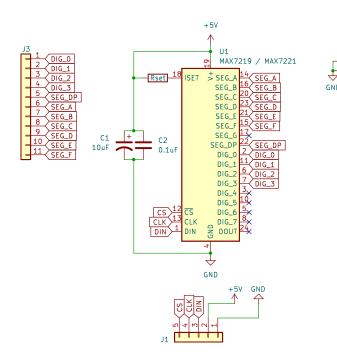


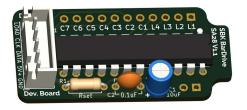
Table 11. R_{SET} vs. Segment Current and LED Forward Voltage

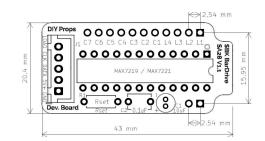
Ι (m Δ)	V _{LED} (V)					
I _{SEG} (mA)	1.5	2.0	2.5	3.0	3.5	
40	12.2	11.8	11.0	10.6	9.69	
30	17.8	17.1	15.8	15.0	14.0	
20	29.8	28.0	25.9	24.5	22.6	
10	66.7	63.7	59.3	55.4	51.2	

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

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







PCB: Component Count:				SBK BarDrive SA28 V1.1 7	
Collated	Components	19	50		
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	IMAX72vv IC lade driver: DIP-24 W7 62mm	

SBK BarDrive 28SA V1.1 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

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Title: SBK BarDrive SA28 V1.1

 Size: USLetter
 Date: 2025-06-16
 Rev: 0

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