

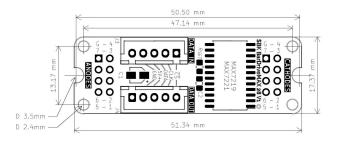
PCB:				SBK BarDriveMAX 28 V1 8		
Compor	mponent Count:					
Collated	Components	:	50			
Item	Qty	Ref.	Value	Part		
1	1	C1	10uF	Electrolytic capacitor: SMD_CP_Elec_3x5.3		
2	1	C2	0.1uF	Ceramic capacitor: C_0805_2012Metric		
3	2	J1, J2	JST-XH_1x05	JST-XH PCB terminal male plug: THT_1x05_P2.50mm_Vertical		
4	2	J3, J4	Conn_02x04	PinSocket_2x04_P2.54mm_Vertical		
5	1	R1	27K	1/4W resistor: R_0805_2012Metric		
6	1	U1	MAX7219xNG MAX7221xNG	IMAX72xx IC leds driver: SOIC-24W 7 5x15 4mm P1 27mm		

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

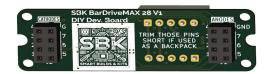
Ι (m Δ)	V <sub>LED</sub> (V)						
I <sub>SEG</sub> (mA)	1.5	2.0	2.5	3.0	3.5		
40	12.2	11.8	11.0	10.6	9.69		
30	17.8	17.1	15.8	15.0	14.0		
20	29.8	28.0	25.9	24.5	22.6		
10	66.7	63.7	59.3	55.4	51.2		

Note: R<sub>SET</sub> values are in Kilo Ohms (kΩ)

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









SBK BarDriveMAX 28 V1

with MAX7219/MAX7221 IC leds driver

to use as a backpack for compatible SBK BarMeter SA28/SK28 PCBs or with any other compatible leds displays

Smart Builds & Kits

File: SBK BarDriveMAX 28 V1.kicad\_sch

Title: SBK BarDriveMAX 28 V1

Size: USLetter Date: 2025-06-20 Rev: 0 KiCad E.D.A. kicad 7.0.9 ld: 1/1