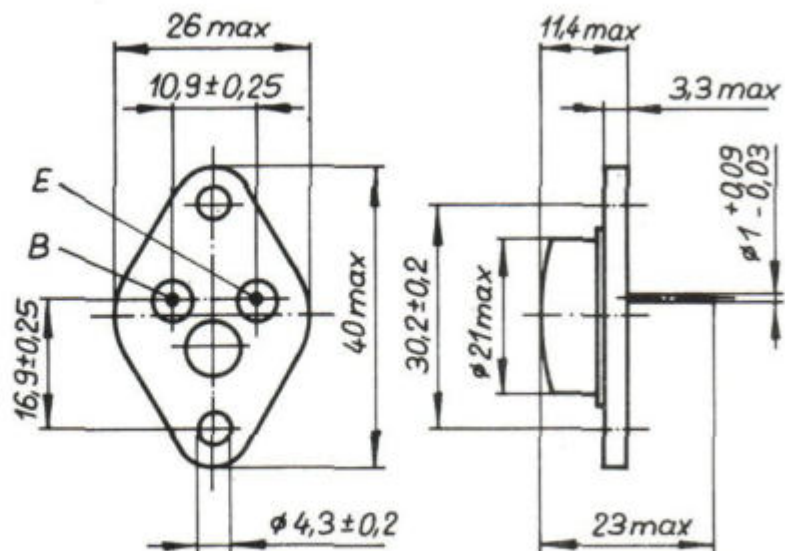


BUX 48 / BUX 48 A

$\triangle$  SU 189 / SU 190

npn-Si-power switching transistor for switched mode power supplies and motor control purposes

Dimension in mm and terminals  
weight c 22 g  
Collector at case



Maximum ratings, valid at a range of ambient temperatures

|                                                          |               | BUX 48 | BUX 48 A |            |
|----------------------------------------------------------|---------------|--------|----------|------------|
| Collector-base-voltage<br>$I_E = 0$                      | $U_{CBO}$     | 850    | 1000     | V          |
| Collector-emitter-voltage<br>$I_B = 0$                   | $U_{CEO}$     | 400    | 450      | V          |
| Collector current                                        | $I_C$         | 15     |          | A          |
| Peak collector current                                   | $I_{CM}$      | 30     |          | A          |
| Total power dissipation<br>$\vartheta_C \leq 25^\circ C$ | $P_{tot}$     | + 175  |          | W          |
| Junction temperature                                     | $\vartheta_j$ | + 200  |          | $^\circ C$ |

Characteristics, at  $\vartheta_C = 25^\circ\text{C}$

|                                                                                                                                             |               | min              | max               |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------------------|
| Collector-emitter cut-off current<br>$U_{CE} = 850\text{ V } 1000\text{ V}, R_{BE} \leq 10\Omega$<br>(BUX 48)(BUX 48 A)                     | $I_{CER}$     |                  | 1,0 mA            |
| Collector-emitter satuation voltage<br>$I_C = 10\text{ A}, I_B = 2\text{ A}$ 1)<br>$I_C = 8\text{ A}, I_B = 1,6\text{ A}$ 2)                | $U_{CEsat}$   |                  | 1,5 V             |
| Base-emitter saturation voltage<br>$I_C = 10\text{ A}, I_B = 2\text{ A}$ 1)<br>$I_C = 8\text{ A}, I_B = 1,6\text{ A}$ 2)                    | $U_{BESat}$   |                  | 1,6 V             |
| Collector-emitter breakdown voltage<br>$I_C = 200\text{ mA}$                                                                                | $U_{(BR)CEO}$ | 400 1)<br>450 2) | V<br>V            |
| Emitter-base breakdown voltage<br>$I_E = 10\text{ mA}$                                                                                      | $U_{(BR)EBO}$ | 10               | V                 |
| Fall time<br>$I_C = 10\text{ A}, I_B = -I_B = 2\text{ A}$ 1)<br>$I_C = 8\text{ A}, I_B = -I_B = 1,6\text{ A}$ 2)<br>$U_{CC} = 150\text{ V}$ | $t_f$         |                  | 0,8 $\mu\text{s}$ |

1) BUX 48

2) BUX 48 A

Denotaion for ordering: transistor BUX 48  
transistor BUX 48 A

Alteration reserved !



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