

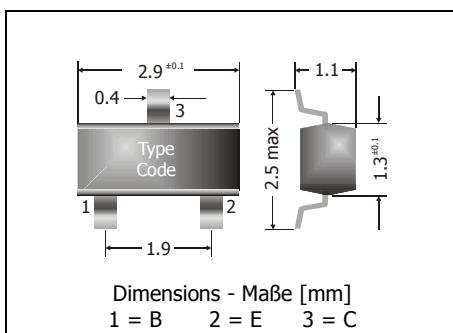
BC817K / BC818K

NPN

Surface Mount Low Rth Si-Epi-Planar Transistors
Si-Epi-Planar Low Rth Transistoren für die Oberflächenmontage

NPN

Version 2011-10-26



Power dissipation – Verlustleistung

500 mW

Plastic case

SOT-23

Kunststoffgehäuse

(TO-236)

Weight approx. – Gewicht ca.

0.01 g

Plastic material has UL classification 94V-0
Gehäusematerial UL94V-0 klassifiziertStandard packaging taped and reeled
Standard Lieferform gegurtet auf Rolle**Maximum ratings ($T_A = 25^\circ\text{C}$)****Grenzwerte ($T_A = 25^\circ\text{C}$)**

		BC817K	BC818K
Collector-Base-volt. – Kollektor-Basis-Spannung	C open	V_{CBO}	50 V
Collector-Emitter-volt. – Kollektor-Emitter-Spannung	B open	V_{CEO}	45 V
Emitter-Base-voltage – Emitter-Basis-Spannung	C open	V_{EBO}	5 V
Power dissipation – Verlustleistung	$T_{sp} \leq 115^\circ\text{C}$	P_{tot}	500 mW
Collector current – Kollektorstrom (dc)		I_C	500 mA
Peak Collector current – Kollektor-Spitzenstrom		I_{CM}	1 A
Base current – Basisstrom		I_B	100 mA
Peak Base current – Basis-Spitzenstrom		I_{BM}	200 mA
Junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur	T_j T_S		+150°C -55...+150°C

Characteristics ($T_j = 25^\circ\text{C}$)**Kennwerte ($T_j = 25^\circ\text{C}$)**

		Min.	Typ.	Max.
DC current gain – Kollektor-Basis-Stromverhältnis ²⁾				
$V_{CE} = 1 \text{ V}, I_C = 100 \text{ mA}$	Group -16 Group -25 Group -40	h_{FE} h_{FE} h_{FE}	100 160 250	– – –
$V_{CE} = 1 \text{ V}, I_C = 500 \text{ mA}$	all groups	h_{FE}	40	– –
Collector-Emitter saturation voltage – Kollektor-Emitter-Sättigungsspg. ²⁾				
$I_C = 500 \text{ mA}, I_B = 50 \text{ mA}$		V_{CESat}	–	0.7 V
Base-Emitter saturation voltage – Basis-Emitter-Sättigungsspannung ²⁾				
$I_C = 500 \text{ mA}, I_B = 50 \text{ mA}$		V_{BEsat}	–	1.2 V

2 Tested with pulses $t_p = 300 \mu\text{s}$, duty cycle $\leq 2\%$ – Gemessen mit Impulsen $t_p = 300 \mu\text{s}$, Schaltverhältnis $\leq 2\%$

Characteristics ($T_j = 25^\circ\text{C}$)

		Min.	Typ.	Max.
Collector-Base cutoff current – Kollektor-Basis-Reststrom $V_{CB} = 25 \text{ V}, (\text{E open})$	I_{CBO}	–	–	100 nA
Emitter-Base cutoff current – Emitter-Basis-Reststrom $V_{EB} = 4 \text{ V}, (\text{C open})$	I_{EBO}	–	–	100 nA
Transition Frequency – Transitfrequenz $V_{CE} = 5 \text{ V}, I_C = 50 \text{ mA}, f = 100 \text{ MHz}$	f_T	–	170 MHz	–
Collector-Base Capacitance – Kollektor-Basis-Kapazität $V_{CB} = 10 \text{ V}, I_E = i_e = 0, f = 1 \text{ MHz}$	C_{CBO}	–	3 pF	–
Thermal resistance junction to soldering point Wärmewiderstand Sperrsicht – Lötpunkt	R_{thsp}	< 70 K/W		
Recommended complementary PNP transistors Empfohlene komplementäre PNP-Transistoren		BC807K / BC808K		
Marking of available current gain groups per type Stempelung der lieferbaren Stromverstärkungsgruppen pro Typ		BC817K-16 = 6A or 6CR BC817K-25 = 6B or 6CS BC817K-40 = 6C or 6CT	BC818K-16 = 6E or 6CR BC818K-25 = 6F or 6CS BC818K-40 = 6G or 6CT	

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