

ABRIDGED DATA - ÜBERSICHTSTABELLE - TABLEAU SYNOPTIQUE

Power Transistors - Transistoren - Transistaires

Type Typ Type	V <sub>CEX</sub> V	V <sub>(BR)CEO</sub> (V <sub>CEOsus</sub> ) V	I <sub>C</sub> A	I <sub>CM</sub> A	h <sub>21E</sub> (h <sub>FE</sub> )	V <sub>CE(sat)</sub> max. V	at bei à	I <sub>C</sub> A	R <sub>thjc</sub> °C/W	T <sub>vj</sub> max °C	P <sub>tot</sub> max W	t <sub>on</sub> max µs	t <sub>s</sub> max µs	t <sub>f</sub> max µs	Case Gehäuse Boîtier	Page Seite Page
SKC 6 F 70 SKC 6 F 75	700 750	400	6	12	min 15 typ. 20	0,7		3	2,5	150	50	1	5	1	TO-220AB	4
SKC 10 C 70 SKC 10 C 75	700 750	400	10	20	min. 15 typ. 20	0,7		5	1,25	150	100	1	3	0,7		7
SKC 10 A 70 SKC 10 A 75	700 750	400	10	20	min. 15 typ. 20	0,7		5	1,25	150	100	1	3	0,7	TO-3	10
SKC 25 B 70 SKC 25 B 75	700 750	400	25	40	min. 15 typ. 20	0,6		10	0,5	150	250	1	3	0,5	TO-204AE	13
SKC 25 B 80	800	400	25	40	min. 6	0,7		10	0,625	150	200	1,5	5	1	TO-204AE	16
SKC 30 D 70 SKC 30 D 75	700 750	400	30	60	min. 8 typ. 15	1		10	0,625	150	200	2	4	2	Jumbo TO-3	19

Darlington

SKG 15 A 70 SKG 15 A 75	700 750	450	15	30	min. 100 typ. 150	2,3		15	0,833	150	150	2	15	10	TO-3	22
SKG 30 E 70 SKG 30 E 75	700 750	450	30	60	min. 100	2,5		30	0,417	150	300	2,5	12	6	Flat base Flachboden Embase plane	25
SKG 50 E 70 SKG 50 E 75	700 750	450	50	100	min. 100	2,3		50	0,357	150	350	2,5	12	6	Flat base Flachboden Embase plane	28

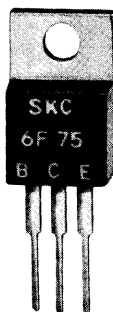
**SKC 6 F 70**  
**SKC 6 F 75 \***

HIGH SPEED POWER TRANSISTOR  
SCHNELLER LEISTUNGSTRANSISTOR  
TRANSISTOR DE PUISSANCE RAPIDE

NPN

LIMITING VALUES GRENZWERTE VALEURS LIMITEES			CHARACTERISTICS KENNWERTE CARACTERISTIQUES		
				$T_{case} = 25^{\circ}C$	
	<b>SKC 6 F 70</b>	<b>SKC 6 F 75*</b>			
$V_{CBO}$	700 V	750 V	$V_{(BR)CEO} (= V_{CEO_{sus}})$	400 V	$\left\{ \begin{array}{l} I_C = 0,2 \text{ A} \\ I_B = 0 \\ L = 20 \text{ mH} \end{array} \right.$
$V_{CEO}$	400 V	400 V	$I_{CBO}$	max. 0,1 mA	$\left\{ \begin{array}{l} V_{CB} = V_{CBO} \\ I_E = 0 \end{array} \right.$
$V_{CEX} (V_{BE} = -2,5 \text{ V})$	700 V	750 V	$I_{CEO}$	max. 0,1 mA	$\left\{ \begin{array}{l} V_{CE} = 0,8 \cdot V_{CEO} \\ I_B = 0 \end{array} \right.$
$I_C$		6 A	$I_{EBO}$	max. 1 mA	$\left\{ \begin{array}{l} V_{EB} = V_{EBO} \\ I_C = 0 \end{array} \right.$
$I_{CM}$		12 A	$h_{21E} (= h_{FE})$	min. 15 (8) typ. 20 (10)	$\left\{ \begin{array}{l} I_C = 3 \text{ A (6 A)} \\ V_{CE} = 2 \text{ V} \end{array} \right.$
$I_B$		2 A	$V_{CEsat}$	typ. 0,25 V max. 0,70 V	$\left\{ \begin{array}{l} I_C = 3 \text{ A} \\ I_B = 0,3 \text{ A} \end{array} \right.$
$I_{BM}$		4 A	$V_{BEsat}$	typ. 1 V max. 1,5 V	$\left\{ \begin{array}{l} I_C = 3 \text{ A} \\ I_B = 0,3 \text{ A} \end{array} \right.$
$V_{EBO}$		7 V	$f_T$	typ. 20 MHz	$\left\{ \begin{array}{l} V_{CE} = 10 \text{ V} \\ I_C = 0,6 \text{ A} \end{array} \right.$
$P_{tot} (T_{case} = 25^{\circ}C)$		50 W	$t_{on} (= t_d + t_r)$	typ. 0,55 $\mu s$ max. 1 $\mu s$	$\left\{ \begin{array}{l} I_C = 3 \text{ A} \\ I_{B1} = 0,6 \text{ A} \\ I_{B2} = 0,6 \text{ A} \\ V_{BB2} = 4 \text{ V} \\ R_L = 10 \Omega \end{array} \right.$
$T_{vj}$		150 $^{\circ}C$	$t_s$	typ. 2,5 $\mu s$ max. 5 $\mu s$	
$T_{stg}$		- 55 ... + 150 $^{\circ}C$	$t_f$	typ. 0,5 $\mu s$ max. 1 $\mu s$	
Case Gehäuse Boîtier	F	JEDEC: TO-220AB DIN 41 869 T.6:14A3	$R_{thjc}$	2,5 $^{\circ}C/W$	
Weight Gewicht Masse		ca. 6 g			

\* Delivery on request in limited quantities. Auf Anfrage in begrenzter Stückzahl lieferbar. Sur demande, livrable en quantités limitées.



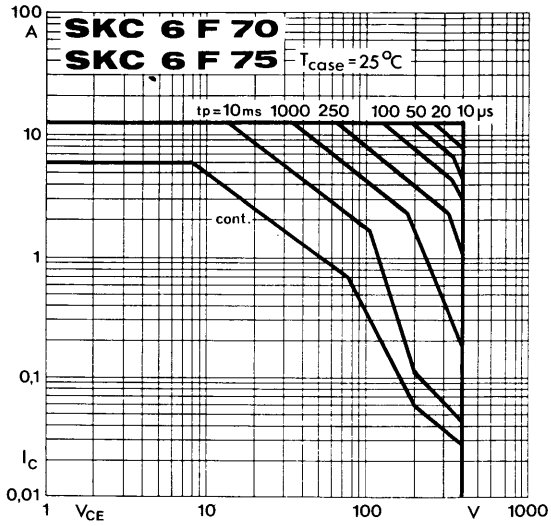


Fig. 1

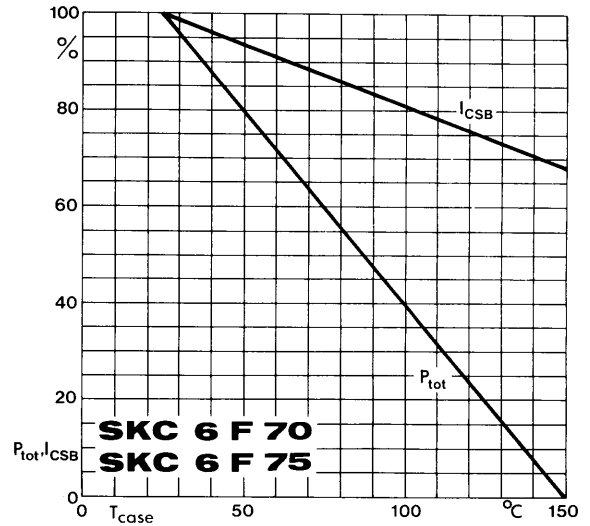


Fig. 2

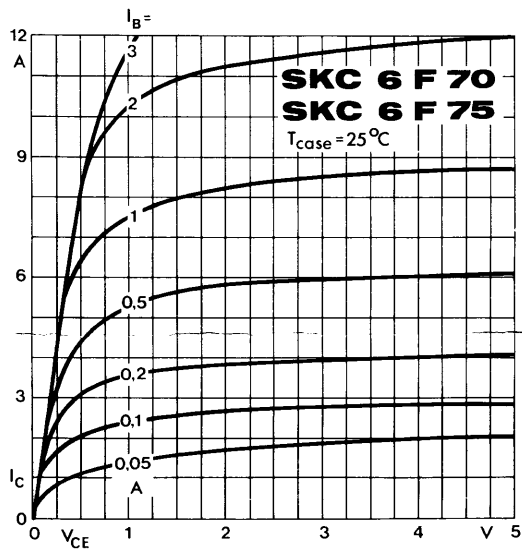


Fig. 3

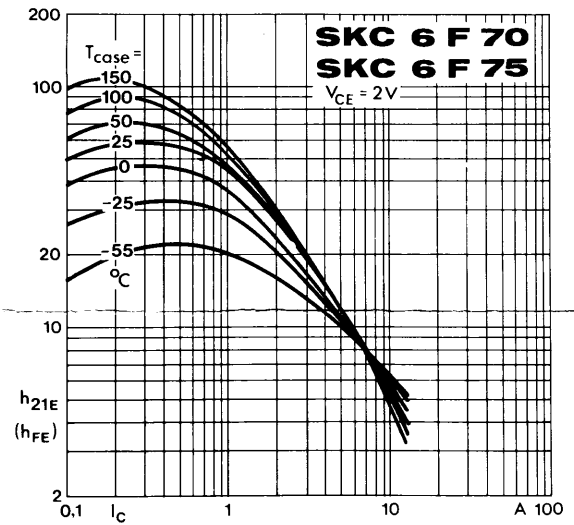


Fig. 4

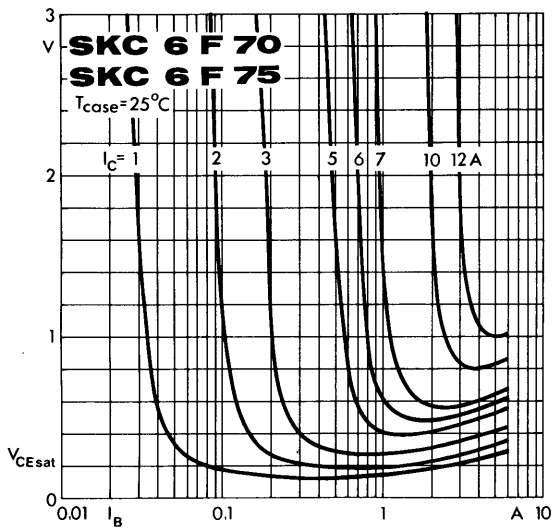


Fig. 5

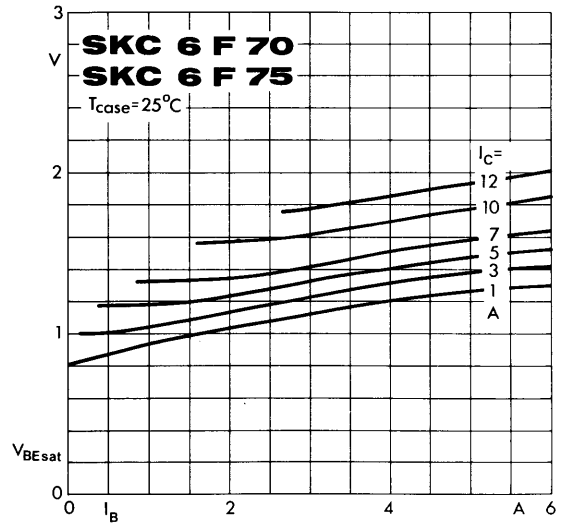
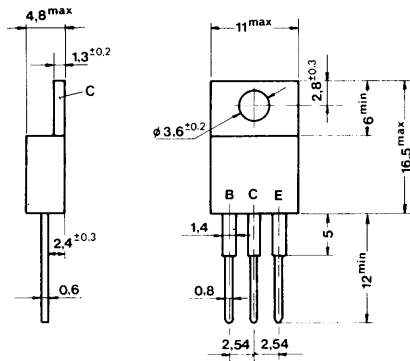
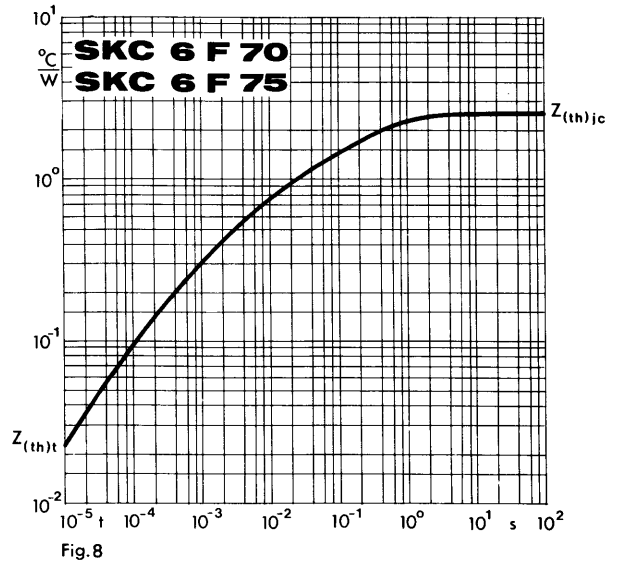
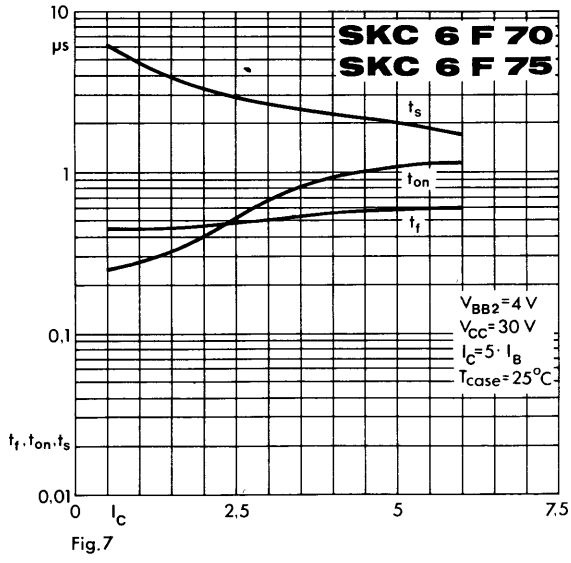
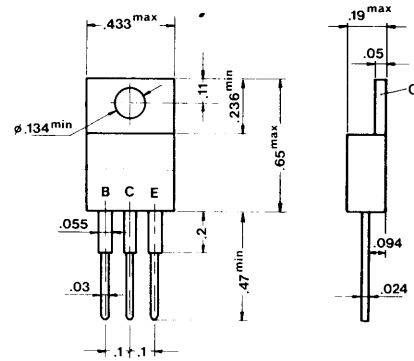


Fig. 6



Dimensions in mm  
Maße in mm  
Dimensions en mm



Dimensions in inches

**SKC 10 C 70**  
**SKC 10 C 75\***

HIGH SPEED POWER TRANSISTOR  
 SCHNELLER LEISTUNGSTRANSISTOR  
 TRANSISTOR DE PUISSANCE RAPIDE

NPN

LIMITING VALUES GRENZWERTE VALEURS LIMITEES			CHARACTERISTICS KENNWERTE CARACTERISTIQUES		
					$T_{case} = 25^{\circ}C$
	<b>SKC 10 C 70</b>	<b>SKC 10 C 75*</b>			
$V_{CBO}$	700 V	750 V	$V_{(BR)CEO} (= V_{CEO_{sus}})$	400 V	$\left\{ \begin{array}{l} I_C = 0,2 \text{ A} \\ I_B = 0 \\ L = 20 \text{ mH} \end{array} \right.$
$V_{CEO}$	400 V	400 V	$I_{CBO}$	max. 0,1 mA	$\left\{ \begin{array}{l} V_{CB} = V_{CBO} \\ I_E = 0 \end{array} \right.$
$V_{CEX} (V_{BE} = -2,5 \text{ V})$	700 V	750 V	$I_{CEO}$	max. 0,1 mA	$\left\{ \begin{array}{l} V_{CE} = 0,8 \cdot V_{CEO} \\ I_B = 0 \end{array} \right.$
$I_C$		10 A	$I_{EBO}$	max. 1 mA	$\left\{ \begin{array}{l} V_{EB} = V_{EBO} \\ I_C = 0 \end{array} \right.$
$I_{CM}$		20 A	$h_{21E} (= h_{FE})$	min. 15 (8) typ. 20 (10)	$\left\{ \begin{array}{l} I_C = 5 \text{ A (10 A)} \\ V_{CE} = 2 \text{ V} \end{array} \right.$
$I_B$		4 A	$V_{CEsat}$	typ. 0,4 V max. 0,7 V	$\left\{ \begin{array}{l} I_C = 5 \text{ A} \\ I_B = 0,5 \text{ A} \end{array} \right.$
$I_{BM}$		8 A	$V_{BEsat}$	typ. 1 V max. 1,5 V	$\left\{ \begin{array}{l} I_C = 5 \text{ A} \\ I_B = 0,5 \text{ A} \end{array} \right.$
$V_{EBO}$		7 V			
$P_{tot} (T_{case} = 25^{\circ}C)$		100 W	$f_T$	typ. 20 MHz	$\left\{ \begin{array}{l} V_{CE} = 10 \text{ V} \\ I_C = 1 \text{ A} \end{array} \right.$
$T_{vj}$		150 $^{\circ}C$	$t_{on} (= t_d + t_r)$	typ. 0,7 $\mu s$ max. 1 $\mu s$	$\left\{ \begin{array}{l} I_C = 5 \text{ A} \\ I_{B1} = 1 \text{ A} \\ I_{B2} = 1 \text{ A} \\ V_{BB2} = 4 \text{ V} \\ R_L = 5 \Omega \end{array} \right.$
$T_{stg}$		- 55 ... + 150 $^{\circ}C$	$t_s$	typ. 2,4 $\mu s$ max. 3 $\mu s$	
Case Gehäuse Boîtier	C		$t_f$	typ. 0,5 $\mu s$ max. 0,7 $\mu s$	
Weight Gewicht Masse		ca. 2,2 g	$R_{thjc}$	1,25 $^{\circ}C/W$	

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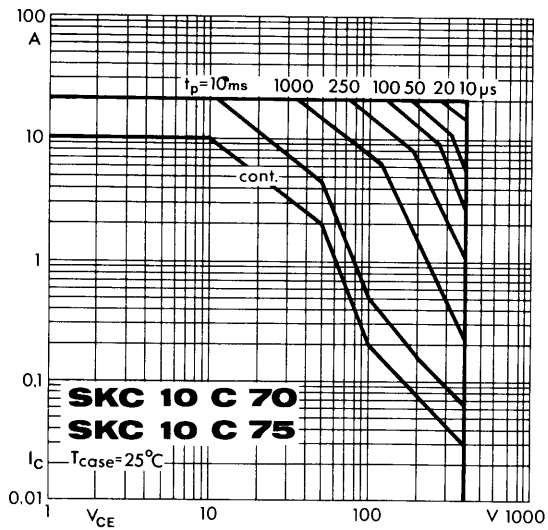


Fig. 1

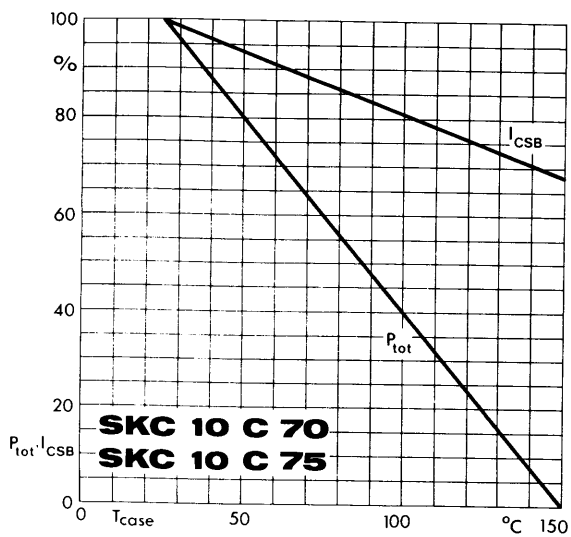


Fig. 2

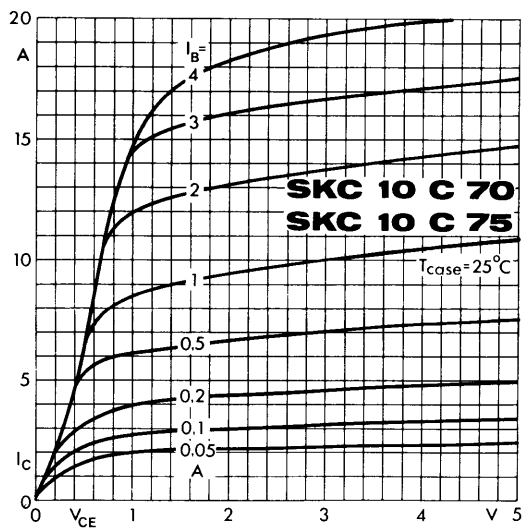


Fig. 3

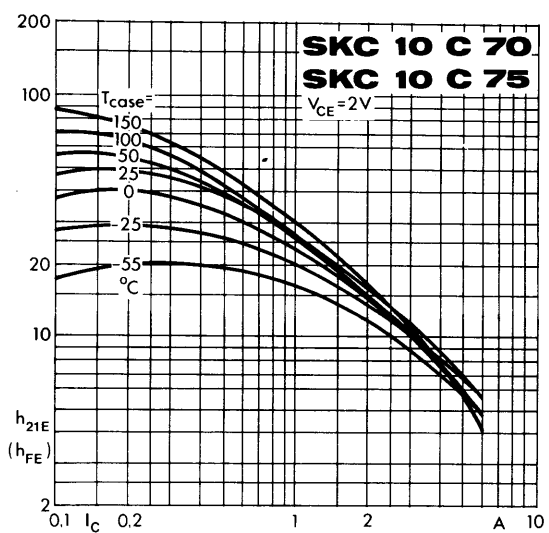


Fig. 4

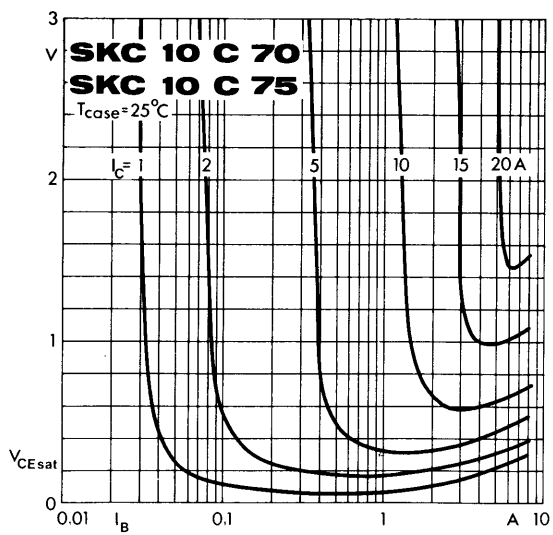


Fig. 5

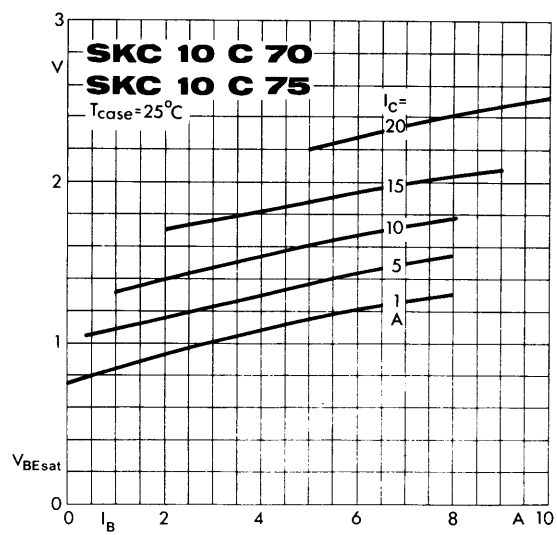
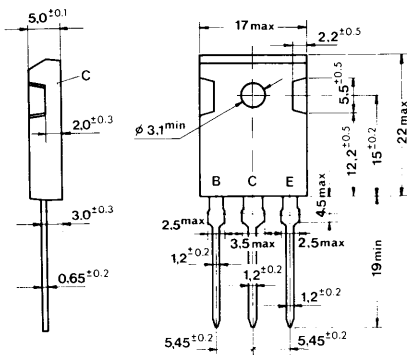
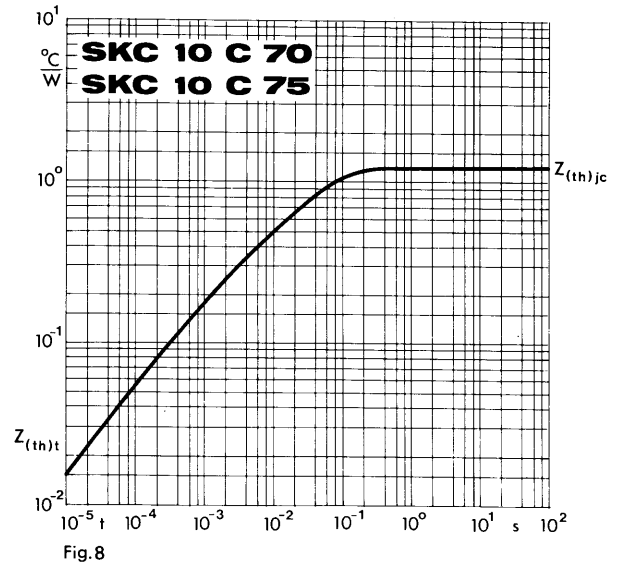
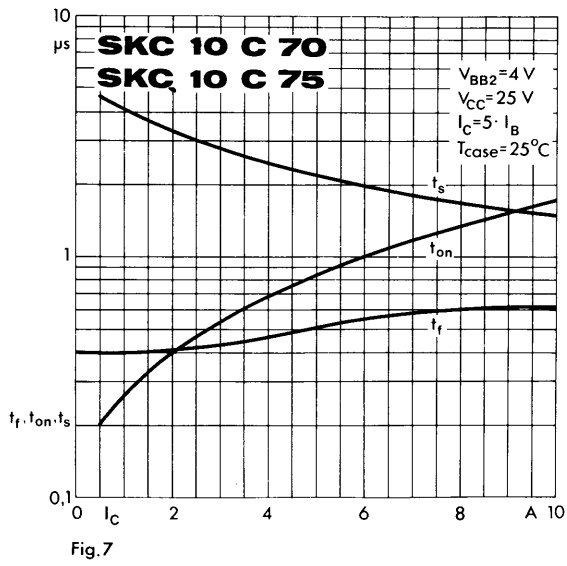
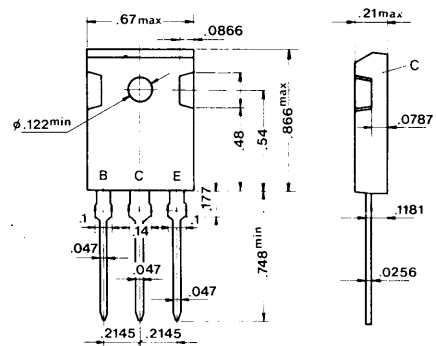


Fig. 6



Dimensions in mm  
Maße in mm  
Dimensions en mm



Dimensions in inches

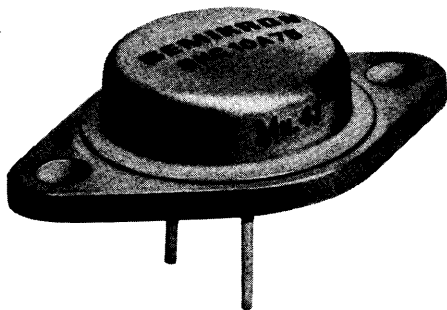
**SKC 10 A 70**  
**SKC 10 A 75\***

HIGH SPEED POWER TRANSISTOR  
 SCHNELLER LEISTUNGSTRANSISTOR  
 TRANSISTOR DE PUISSANCE RAPIDE

NPN

LIMITING VALUES GRENZWERTE VALEURS LIMITEES			CHARACTERISTICS KENNWERTE CARACTERISTIQUES		
	SKC 10 A 70	SKC 10 A 75*	$T_{case} = 25^{\circ}C$		
$V_{CBO}$	700 V	750 V	$V_{(BR)CEO} (= V_{CEOsus})$	400 V	$\left\{ \begin{array}{l} I_C = 0,2 \text{ A} \\ I_B = 0 \\ L = 20 \text{ mH} \end{array} \right.$
$V_{CEO}$	400 V	400 V	$I_{CBO}$	max. 0,1 mA	$\left\{ \begin{array}{l} V_{CB} = V_{CBO} \\ I_E = 0 \end{array} \right.$
$V_{CEX} (V_{BE} = -2,5 \text{ V})$	700 V	750 V	$I_{CEO}$	max. 0,1 mA	$\left\{ \begin{array}{l} V_{CE} = 0,8 \cdot V_{CEO} \\ I_B = 0 \end{array} \right.$
$I_C$		10 A	$I_{EBO}$	max. 1 mA	$\left\{ \begin{array}{l} V_{EB} = V_{EBO} \\ I_C = 0 \end{array} \right.$
$I_{CM}$		20 A	$h_{21E} (= h_{FE})$	min. 15 (8) typ. 20 (10)	$\left\{ \begin{array}{l} I_C = 5 \text{ A (10 A)} \\ V_{CE} = 2 \text{ V} \end{array} \right.$
$I_B$		4 A	$V_{CEsat}$	typ. 0,4 V max. 0,7 V	$\left\{ \begin{array}{l} I_C = 5 \text{ A} \\ I_B = 0,5 \text{ A} \end{array} \right.$
$I_{BM}$		8 A	$V_{BEsat}$	typ. 1 V max. 1,5 V	$\left\{ \begin{array}{l} I_C = 5 \text{ A} \\ I_B = 0,5 \text{ A} \end{array} \right.$
$V_{EBO}$		7 V	$f_T$	typ. 20 MHz	$\left\{ \begin{array}{l} V_{CE} = 10 \text{ V} \\ I_C = 1 \text{ A} \end{array} \right.$
$P_{tot} (T_{case} = 25^{\circ}C)$		100 W	$t_{on} (= t_d + t_r)$	typ. 0,7 $\mu s$ max. 1 $\mu s$	$\left\{ \begin{array}{l} I_C = 5 \text{ A} \\ I_{B1} = 1 \text{ A} \\ I_{B2} = 1 \text{ A} \\ V_{BB2} = 4 \text{ V} \\ R_L = 5 \Omega \end{array} \right.$
$T_{vj}$		150 $^{\circ}C$	$t_s$	typ. 2,4 $\mu s$ max. 3 $\mu s$	
$T_{stg}$		- 55 ... + 150 $^{\circ}C$	$t_f$	typ. 0,5 $\mu s$ max. 0,7 $\mu s$	
Case Gehäuse Boftier	A	JEDEC: TO-3 DIN 41 872: 3A2	$R_{thjc}$	1,25 $^{\circ}C/W$	
Weight Gewicht Masse		ca. 17 g			

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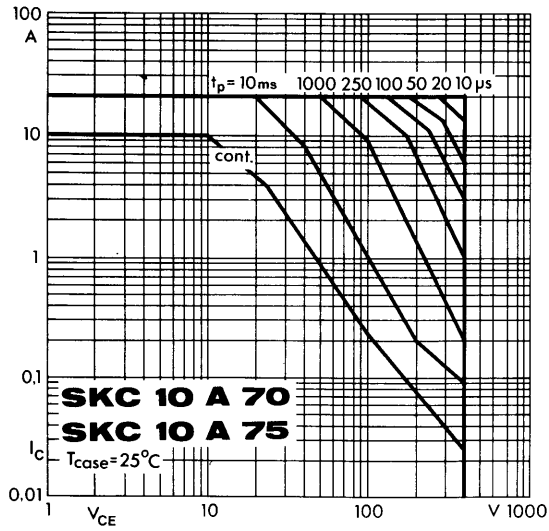


Fig. 1

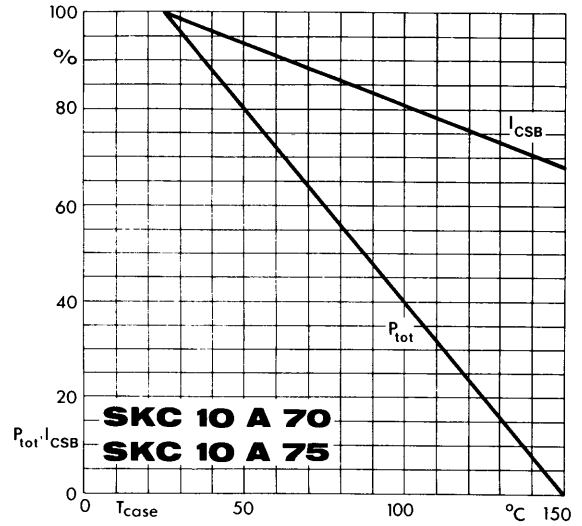


Fig. 2

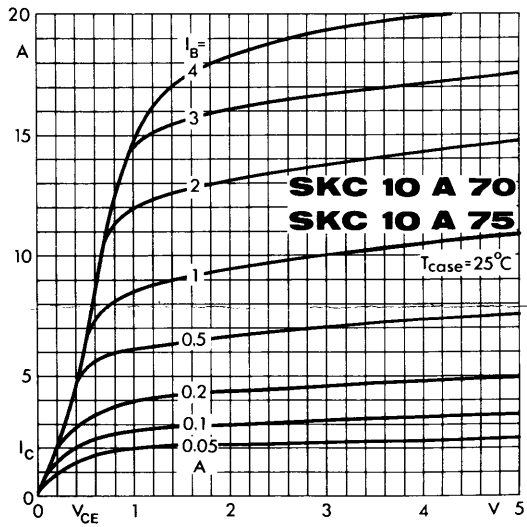


Fig. 3

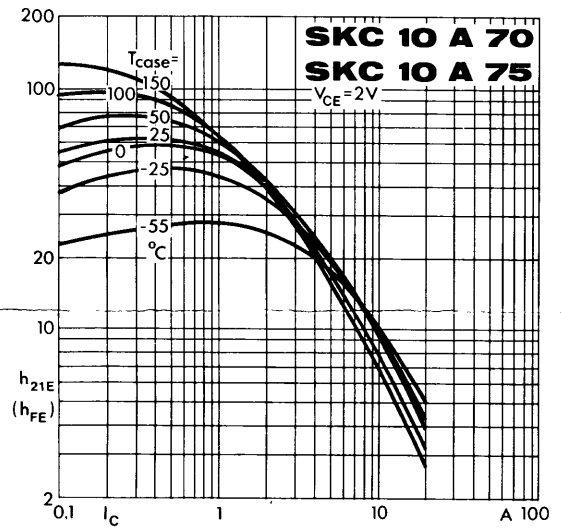


Fig. 4

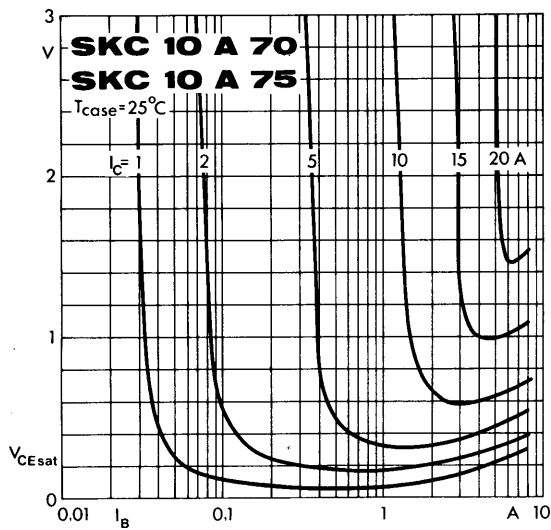


Fig. 5

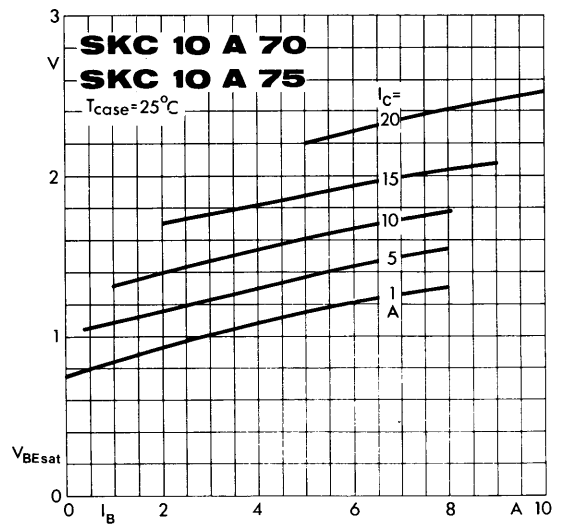


Fig. 6

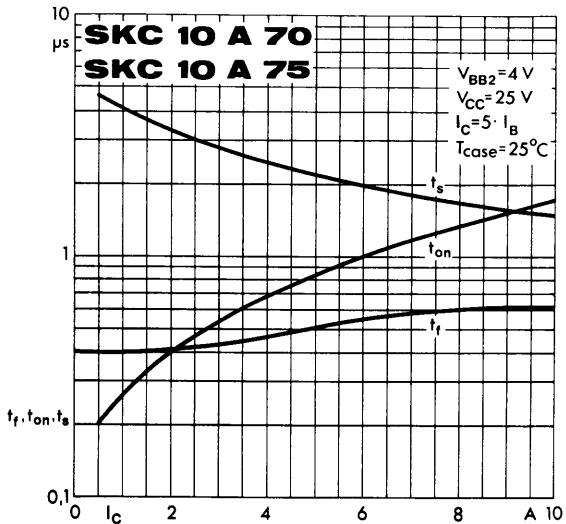


Fig.7

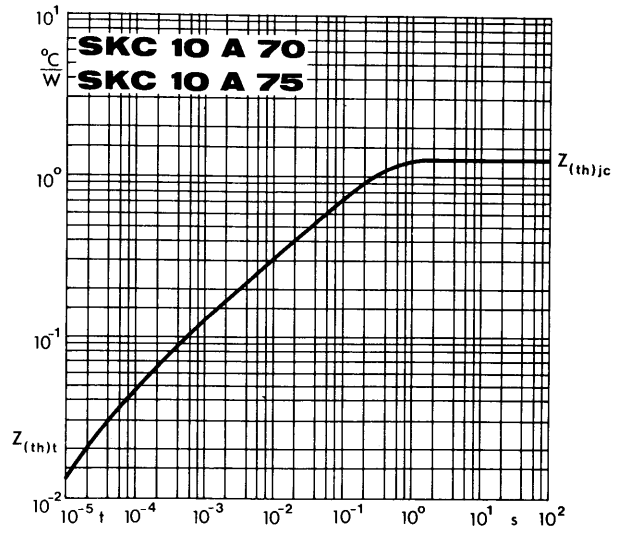
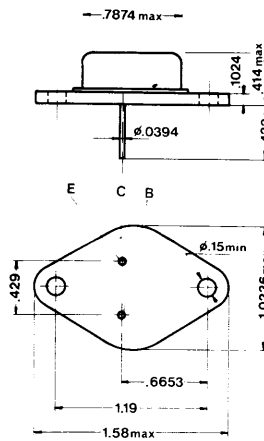
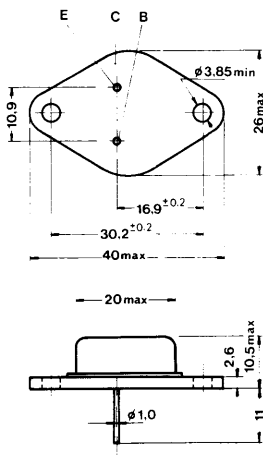


Fig.8



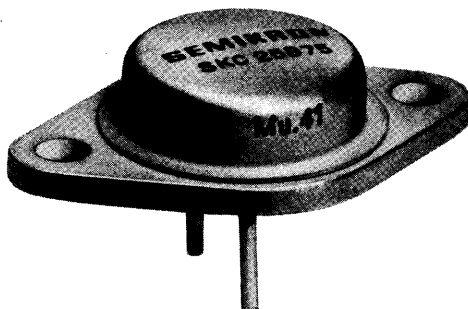
**SKC 25 B 70**  
**SKC 25 B 75\***

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			$T_{case} = 25^{\circ}C$		
	<b>SKC 25 B 70</b>	<b>SKC 25 B 75*</b>			
$V_{CBO}$	700 V	750 V	$V_{(BR)CEO} (= V_{CEO_{sus}})$	400 V	$\left\{ \begin{array}{l} I_C = 0,2 \text{ A} \\ I_B = 0 \\ L = 20 \text{ mH} \end{array} \right.$
$V_{CEO}$	400 V	400 V	$I_{CBO}$	max. 0,1 mA	$\left\{ \begin{array}{l} V_{CB} = V_{CBO} \\ I_E = 0 \end{array} \right.$
$V_{CEX} (V_{BE} = -2,5 \text{ V})$	700 V	750 V	$I_{CEO}$	max. 0,1 mA	$\left\{ \begin{array}{l} V_{CE} = 0,8 \cdot V_{CEO} \\ I_B = 0 \end{array} \right.$
$I_C$		25 A	$I_{EBO}$	max. 1 mA	$\left\{ \begin{array}{l} V_{EB} = V_{EBO} \\ I_C = 0 \end{array} \right.$
$I_{CM}$		40 A	$h_{21E} (= h_{FE})$	min. 15 (8) typ. 20 (10)	$\left\{ \begin{array}{l} I_C = 10 \text{ A (20 A)} \\ V_{CE} = 2 \text{ V} \end{array} \right.$
$I_B$		7 A	$V_{CEsat}$	typ. 0,3 V max. 0,6 V	$\left\{ \begin{array}{l} I_C = 10 \text{ A} \\ I_B = 1 \text{ A} \end{array} \right.$
$I_{BM}$		14 A	$V_{BEsat}$	typ. 1 V max. 1,5 V	$\left\{ \begin{array}{l} I_C = 10 \text{ A} \\ I_B = 1 \text{ A} \end{array} \right.$
$V_{EBO}$		7 V	$f_T$	typ. 20 MHz	$\left\{ \begin{array}{l} V_{CE} = 10 \text{ V} \\ I_C = 2 \text{ A} \end{array} \right.$
$P_{tot} (T_{case} = 25^{\circ}C)$		250 W	$t_{on} (= t_d + t_r)$	typ. 0,6 $\mu s$ max. 1 $\mu s$	$\left\{ \begin{array}{l} I_C = 10 \text{ A} \\ I_{B1} = 2 \text{ A} \\ I_{B2} = 2 \text{ A} \\ V_{BB2} = 4 \text{ V} \\ R_L = 3 \Omega \end{array} \right.$
$T_{vj}$		150 $^{\circ}C$	$t_s$	typ. 2,5 $\mu s$ max. 3 $\mu s$	
$T_{stg}$		- 55 ... + 150 $^{\circ}C$	$t_f$	typ. 0,3 $\mu s$ max. 0,5 $\mu s$	
Case Gehäuse Boîtier	B	JEDEC: TO-204AE DIN 41 872: 3A2	$R_{thjc}$	0,5 $^{\circ}C/W$	
Weight Gewicht Masse		ca. 17,5 g			

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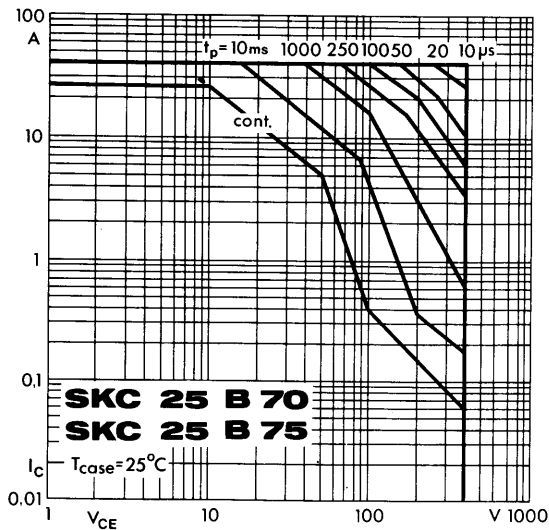


Fig. 1

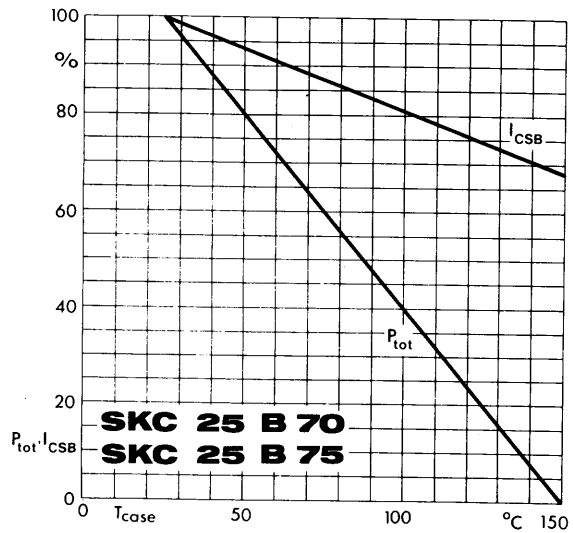


Fig. 2

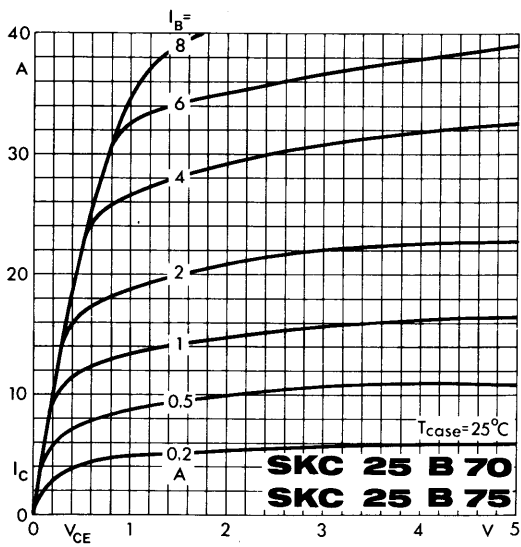


Fig. 3

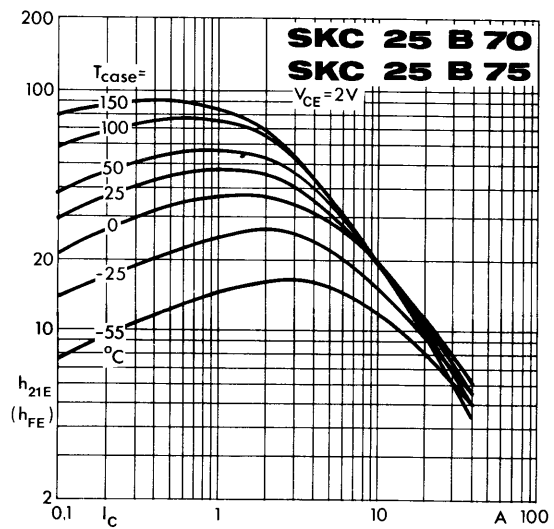


Fig. 4

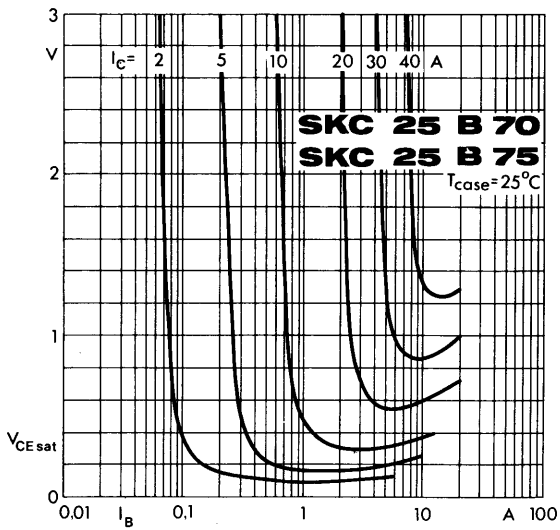


Fig. 5

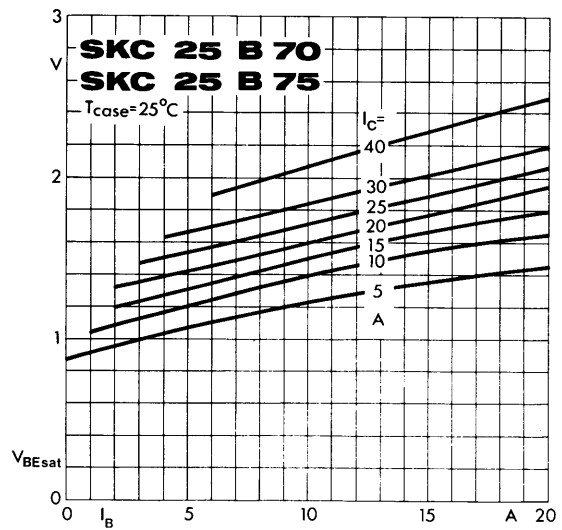


Fig. 6

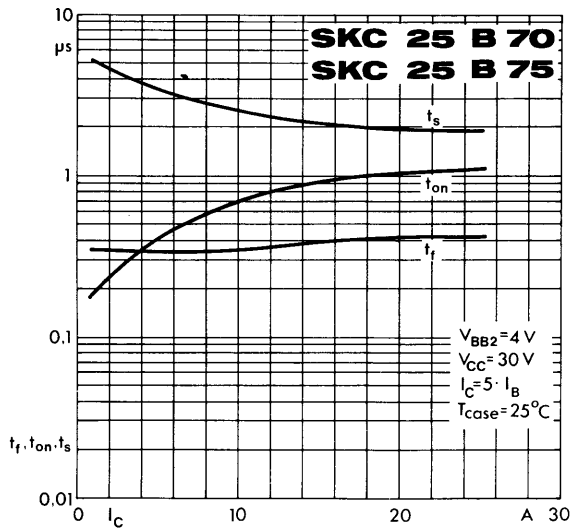


Fig.7

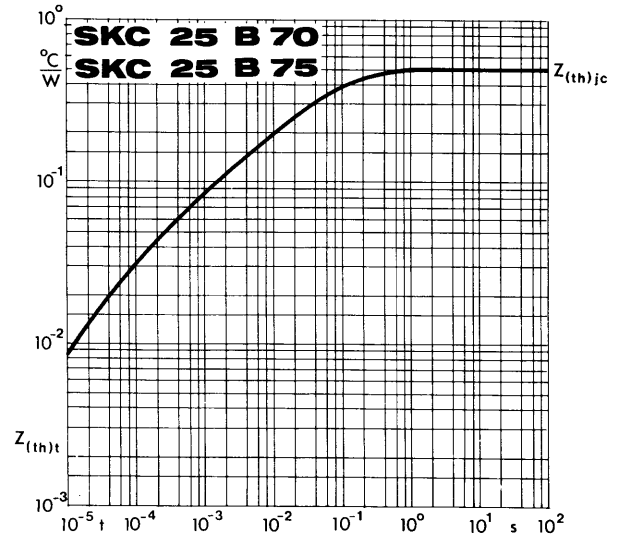
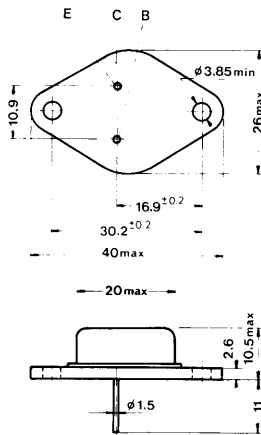
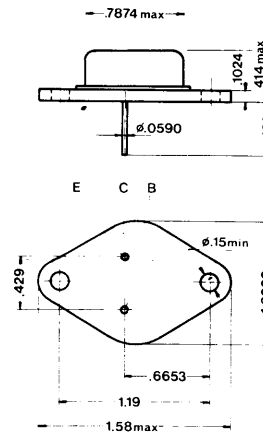


Fig.8



Dimensions in mm  
Maße in mm  
Dimensions en mm



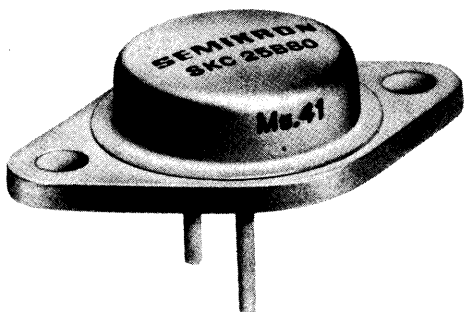
Dimensions in inches

**SKC 25 B 80**

HIGH SPEED POWER TRANSISTOR  
SCHNELLER LEISTUNGSTRANSISTOR  
TRANSISTOR DE PUISSANCE RAPIDE

NPN

LIMITING VALUES GRENZWERTE VALEURS LIMITES		CHARACTERISTICS KENNWERTE CARACTERISTIQUES	
		$T_{case} = 25\text{ }^{\circ}\text{C}$	
	<b>SKC 25 B 80</b>	$V_{(BR)CEO} (= V_{CEO_{sus}})$	400 V $\left\{ \begin{array}{l} I_C = 0,2\text{ A} \\ I_B = 0 \\ L = 20\text{ mH} \end{array} \right.$
$V_{CBO}$	800 V	$I_{CBO}$	max. 0,1 mA $\left\{ \begin{array}{l} V_{CB} = V_{CBO} \\ I_E = 0 \end{array} \right.$
$V_{CEO}$	400 V	$I_{CEO}$	max. 0,1 mA $\left\{ \begin{array}{l} V_{CE} = V_{CEO} \\ I_B = 0 \end{array} \right.$
$V_{CEX} (V_{BE} = -2,5\text{ V})$	800 V	$I_{EBO}$	max. 0,1 mA $\left\{ \begin{array}{l} V_{EB} = V_{EBO} \\ I_C = 0 \end{array} \right.$
$I_C$	25 A	$h_{21E} (= h_{FE})$	min. 6 $\left\{ \begin{array}{l} I_C = 25\text{ A} \\ V_{CE} = 5\text{ V} \end{array} \right.$
$I_{CM}$	40 A	$V_{CEsat}$	typ. 0,3 V max. 0,7 V $\left\{ \begin{array}{l} I_C = 10\text{ A} \\ I_B = 2\text{ A} \end{array} \right.$
$I_B$	7 A	$V_{BEsat}$	typ. 1 V max. 1,5 V $\left\{ \begin{array}{l} I_C = 10\text{ A} \\ I_B = 2\text{ A} \end{array} \right.$
$I_{BM}$	14 A	$f_T$	typ. 10 MHz $\left\{ \begin{array}{l} V_{CE} = 10\text{ V} \\ I_C = 2\text{ A} \end{array} \right.$
$V_{EBO}$	7 V	$t_{on} (= t_d + t_r)$	max. 1,5 $\mu\text{s}$ $\left. \begin{array}{l} \\ \\ \end{array} \right\} \left\{ \begin{array}{l} I_C = 10\text{ A} \\ I_{B1} = 2\text{ A} \\ I_{B2} = 2\text{ A} \\ V_{BB2} = 4\text{ V} \\ R_L = 3\text{ }\Omega \end{array} \right.$
$P_{tot} (T_{case} = 25\text{ }^{\circ}\text{C})$	200 W	$t_s$	max. 5 $\mu\text{s}$
$T_{vj}$	150 $^{\circ}\text{C}$	$t_f$	max. 1 $\mu\text{s}$
$T_{stg}$	- 55 ... + 150 $^{\circ}\text{C}$	$R_{thjc}$	0,625 $^{\circ}\text{C/W}$
Case Gehäuse Boftier	B	JEDEC: TO-204 AE DIN 41 872: 3A2	
Weight Gewicht Masse	ca. 17,5 g		



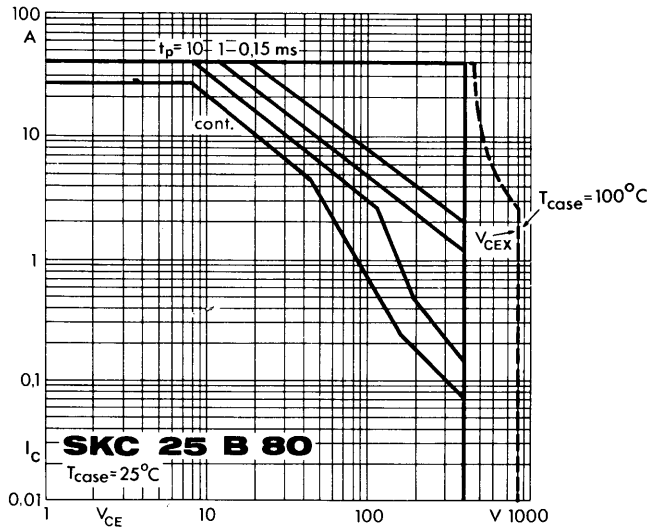


Fig. 1

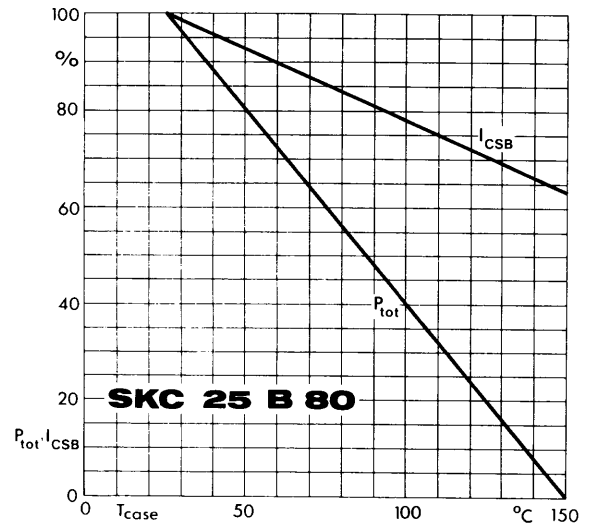


Fig. 2

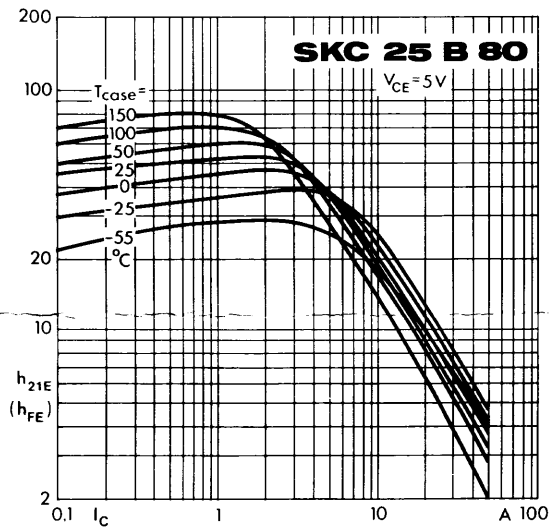


Fig. 4

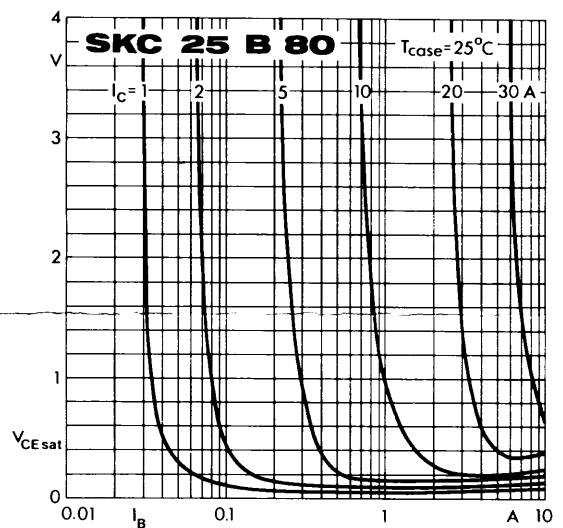


Fig. 5

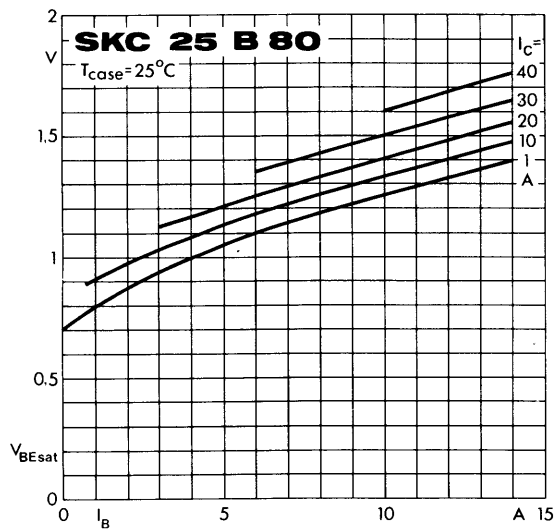


Fig. 6

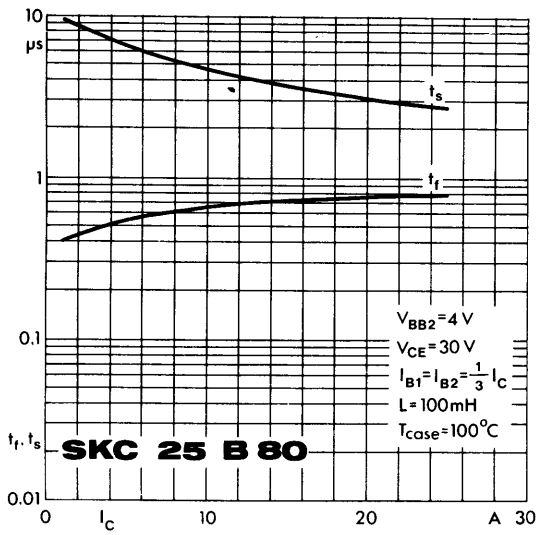


Fig.7

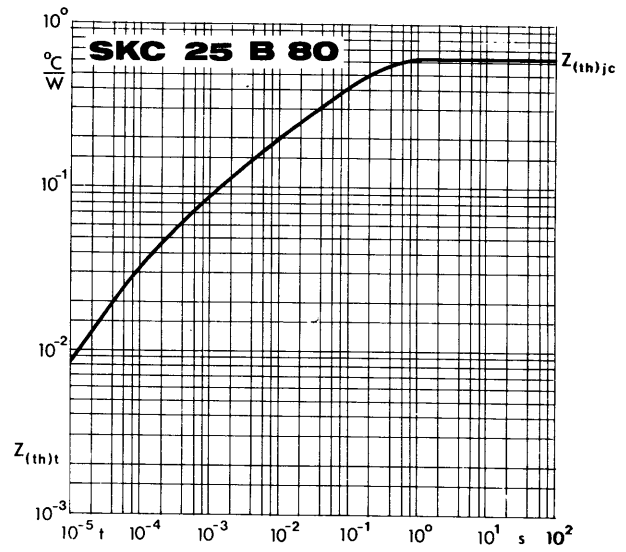
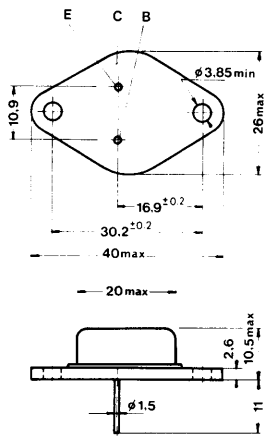
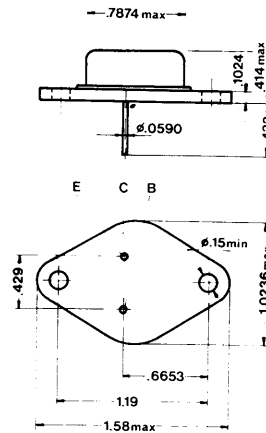


Fig.8



Dimensions in mm  
 Maße in mm  
 Dimensions en mm



Dimensions in inches