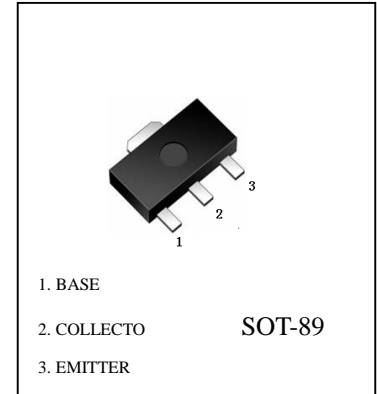


FEATURES

- Low saturation voltage, typically $V_{CE(sat)} = 0.1V$ at $I_C/I_B = 1A/50mA$.
- Excellent DC current gain characteristics.
- Complements the 2SA1797.

2SC4672 (NPN)

Maximum Ratings (Ta=25 °C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current -Continuous	I_C	2	A
Collector Power dissipation	P_C	0.5	W
Storage Temperature	T_{stg}	-55to +150	°C

ELECTRICAL CHARACTERISTICS (@ Ta=25 °C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C=50\mu A, I_E=0$	60			V
Collector-emitter breakdown voltage	V_{CEO}	$I_C=1mA, I_B=0$	50			V
Emitter-base breakdown voltage	V_{EBO}	$I_E=50\mu A, I_C=0$	6			V
Collector cut-off current	I_{CBO}	$V_{CB}=60V, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$			0.1	μA
DC current gain	h_{FE}	$V_{CE}=2V, I_C=0.5A$	82		270	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=1A, I_B=50mA$			0.35	V
Transition frequency	f_T	$V_{CE}=2V, I_C=500mA, f=100MHz$		210		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$		25		pF

CLASSIFICATION OF h_{FE}

Rank	P	Q
Range	80-180	120-270
Marking	KDP	DKQ

2SC4672 Typical Characteristics

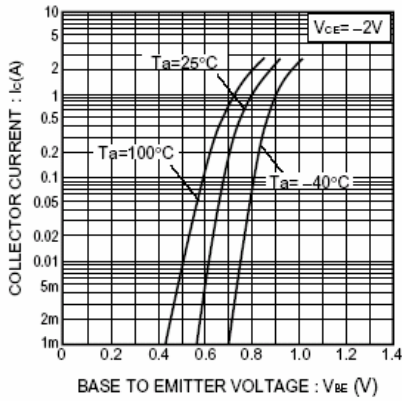


Fig.1 Grounded emitter propagation characteristics

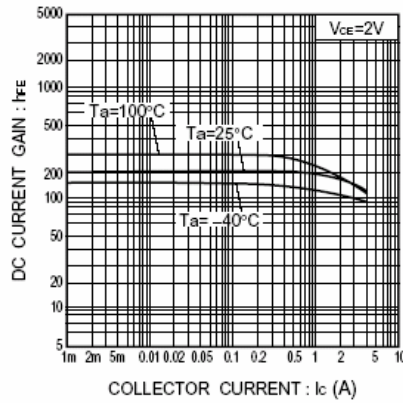


Fig.2 DC current gain vs. collector current

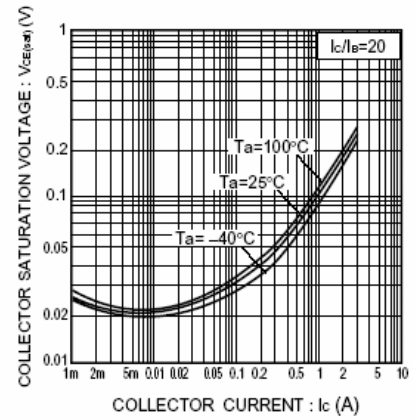


Fig.3 Collector-emitter saturation voltage vs. collector current

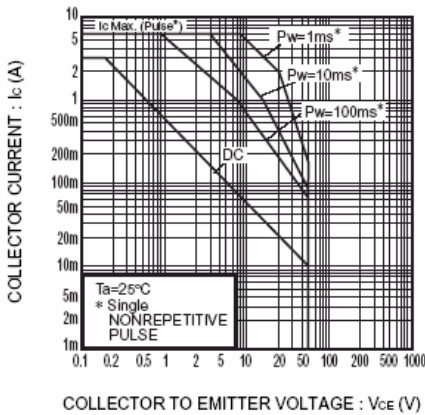


Fig.4 Safe Operating area

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