



Micro Commercial Components

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2SC4617-Q
2SC4617-R
2SC4617-S

Features

- Complement to 2SA1774-Q/R/S
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	50	V
V_{CBO}	Collector-Base Voltage	60	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	150	mA
P_C	Collector Dissipation	150	mW
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

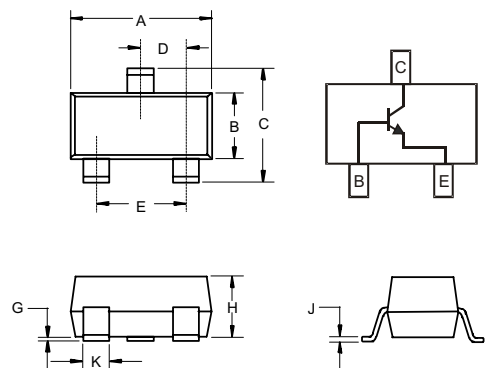
Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=1\text{mA}$, $I_B=0$)	50	---	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=50\mu\text{A}$, $I_E=0$)	60	---	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E=50\mu\text{A}$, $I_C=0$)	7	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=60\text{Vdc}$, $I_E=0\text{Vdc}$)	---	---	0.1	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=7\text{Vdc}$, $I_C=0\text{Vdc}$)	---	---	0.1	μA
h_{FE}	DC Current Gain ($I_C=1\text{mA}$, $V_{CE}=6\text{Vdc}$)	120	---	560	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=50\text{mA}$, $I_B=5\text{mA}$)	---	---	0.4	Vdc
f_T	Transition Frequency ($V_{CE}=12\text{Vdc}$, $I_C=2\text{mA}$, $f=100\text{MHz}$)	---	180	---	MHz
C_{ob}	Output Capacitance ($V_{CB}=12\text{Vdc}$, $f=1.0\text{MHz}$, $I_E=0$)	---	2.0	3.5	pF

Classification OF h_{FE}

Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	BQ	BR	BS

NPN
General Purpose
Transistors

SOT-523



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.030	.033	0.75	0.85	
C	.057	.069	1.45	1.75	
D	.020 Nominal		0.50 Nominal		
E	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
H	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	

2SC4617

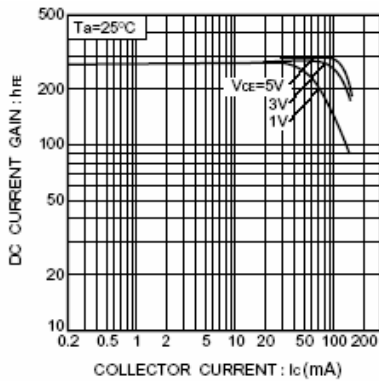


Fig.1 DC current gain vs. collector current

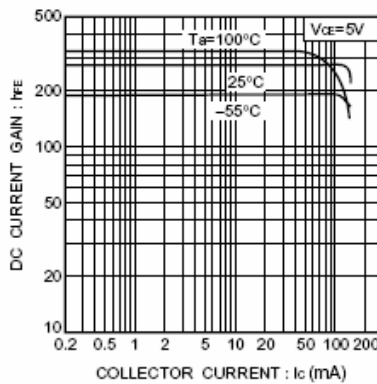


Fig.2 DC current gain vs. collector current

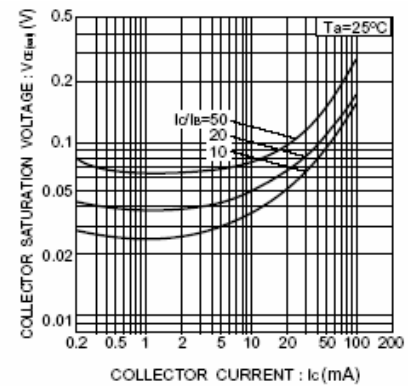


Fig.3 Collector-emitter saturation voltage vs. collector current

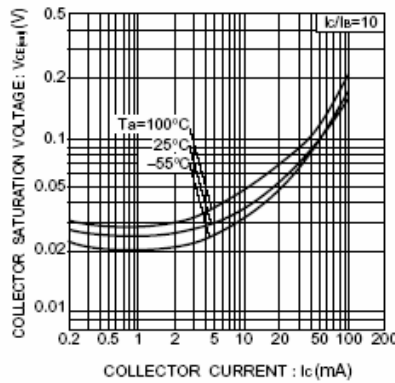


Fig.4 Collector-emitter saturation voltage vs. collector current

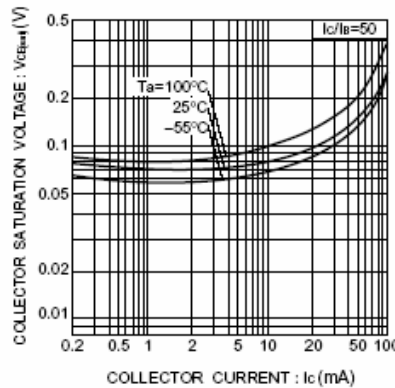


Fig.5 Collector-emitter saturation voltage vs. collector current

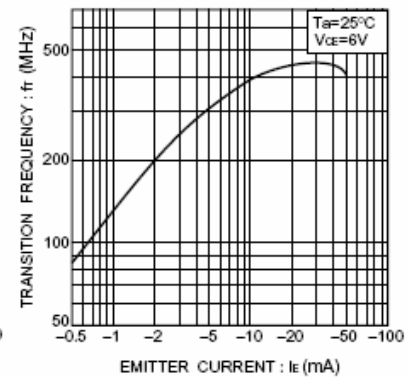


Fig.6 Gain bandwidth product vs. emitter current

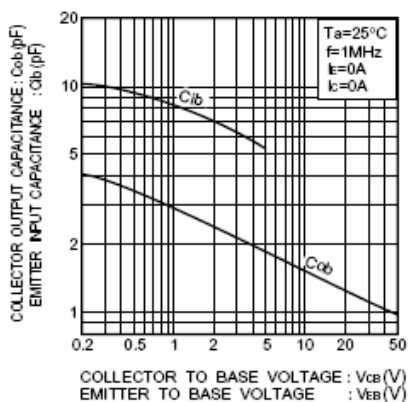


Fig.7 Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage

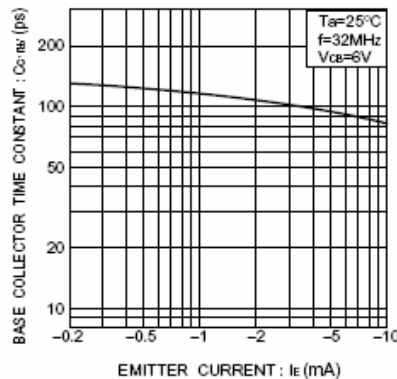


Fig.8 Base-collector time constant vs. emitter current



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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