



Micro Commercial Components
 130 W Cochran St, Unit B
 Simi Valley, CA 93065
 Tel:818-701-4933

2SA1774-Q
2SA1774-R
2SA1774-S

PNP Silicon
Epitaxial Transistor

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Small Package
- Mounting: any position
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings @ T_a = 25°C (unless otherwise noted)

Symbol	Parameter	Value	Unit
I _C	Collector Current	-0.15	A
P _D	Total Device Dissipation	0.15	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-1mA _{dc} , I _B =0)	-50		V
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-50μA _{dc} , I _E =0)	-60		V
V _{(BR)EBO}	Collector-Base Breakdown Voltage (I _E =-50μA _{dc} , I _C =0)	-6.0		V
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =-60V _{dc} , I _E =0)		-0.1	μA _{dc}
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =-6.0V _{dc} , I _C =0)		-0.1	μA _{dc}

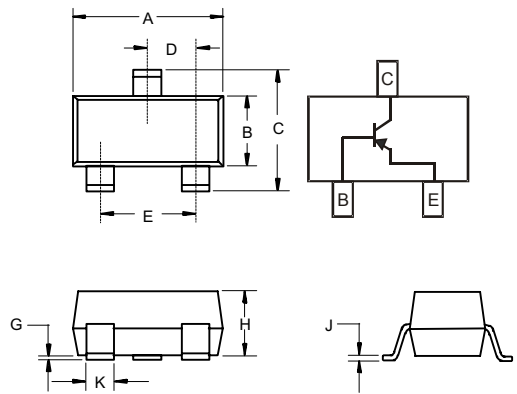
ON CHARACTERISTICS

H _{FE}	DC Current Gain (I _C =-1.0mA _{dc} , V _{CE} =-6.0V _{dc})	120	560	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =-50mA _{dc} , I _B =-5.0mA _{dc})		-0.5	V _{dc}
F _T	Transition Frequency (V _{CE} =-12V _{dc} , I _C =-2mA _{dc} , f=30MHZ)	140 _(Typ)		MHZ
C _{ob}	Collector Output Capacitance (V _{CB} =-12V _{dc} , I _C =0A _{dc} , f=1MHZ)		5	PF

CLASSIFICATION OF h_{FE}

Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	FQ	FR	FS

SOT-523



DIM	DIMENSIONS				NOTE
	INCHES		MM		
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	

Curve Characteristics

Fig. 1 - Static Characteristics

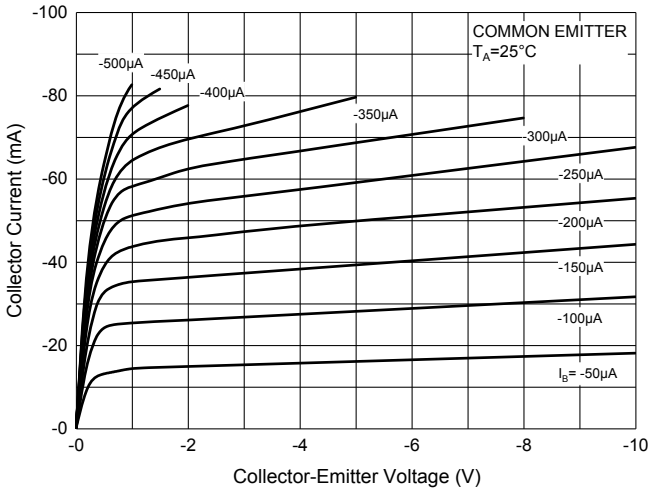


Fig. 2 - DC Current Gain Characteristics

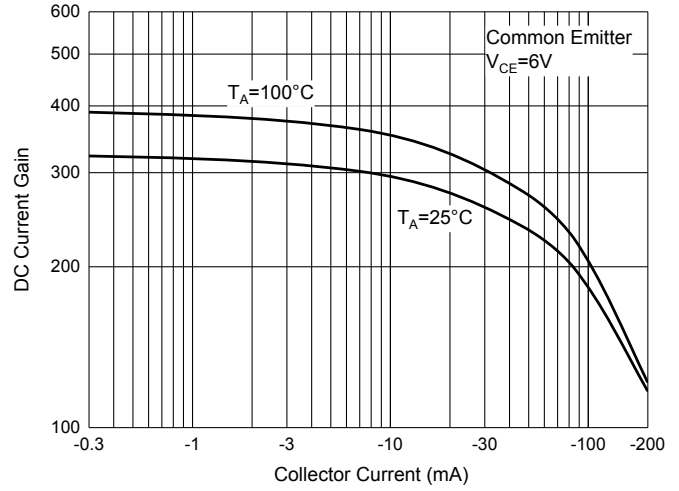


Fig. 3 - Collector-Emitter Saturation Voltage Characteristics

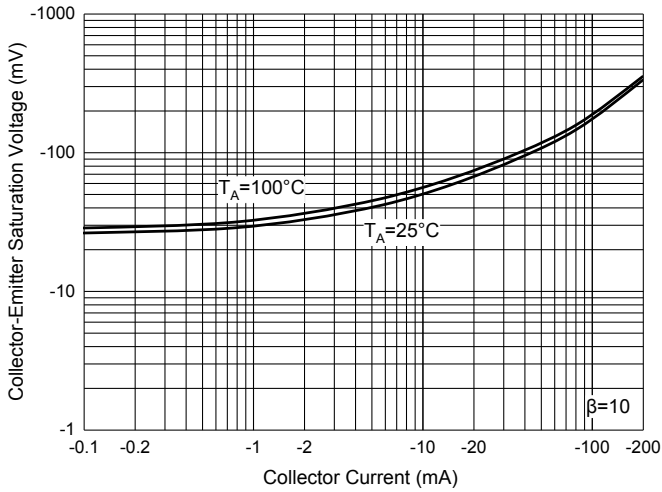


Fig. 4 - Base-Emitter Saturation Voltage Characteristics

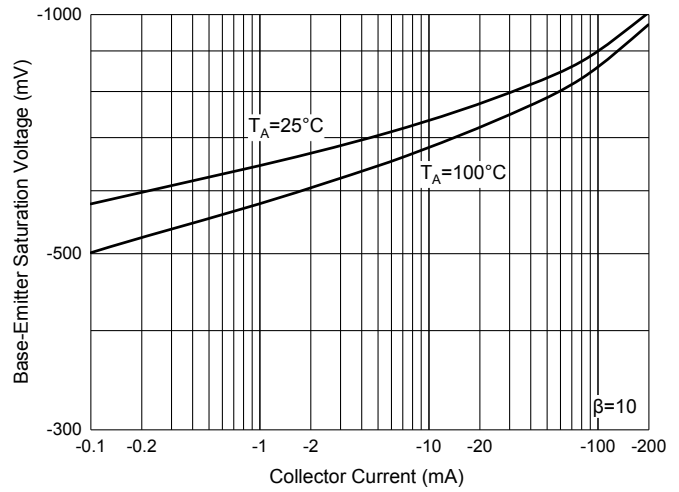


Fig. 5 - Base-Emitter Voltage Characteristics

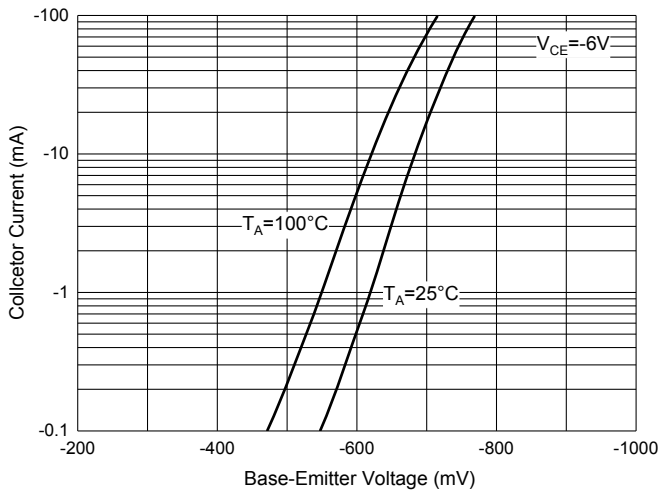
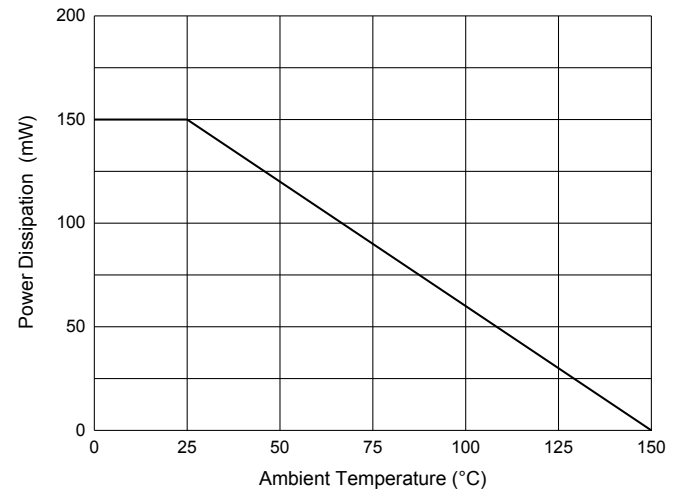


Fig. 6 - Power Derating Curve





Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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