

Features

- Halogen Free. "Green" Device (Note 1)
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-60	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-6	V
Collector Current	I _C	-150	mA
Collector Power Dissipation	P _C	150	mW

Classification Of h_{FE}

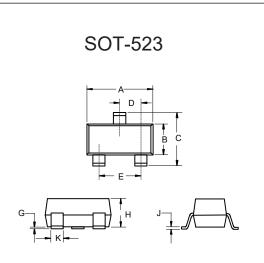
Rank	2SA1774-Q	2SA1774-R	2SA1774-S	
Range	120-270	180-390	270-560	
Marking	FQ	FR	FS	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

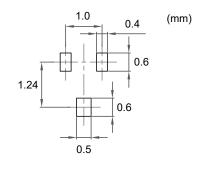


PNP General Purpose Transistor



DIMENSIONS					
DIM INCHES MIN MAX		M	M	NOTE	
		MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.030	0.033	0.75	0.85	
С	0.057	0.069	1.45	1.75	
D	0.020		0.50		TYP.
Е	0.035	0.043	0.90	1.10	
G	0.000	0.004	0.00	0.10	
Н	0.024	0.031	0.60	0.80	
J	0.004	0.008	0.10	0.20	
K	0.006	0.014	0.15	0.35	

Suggested Solder Pad Layout





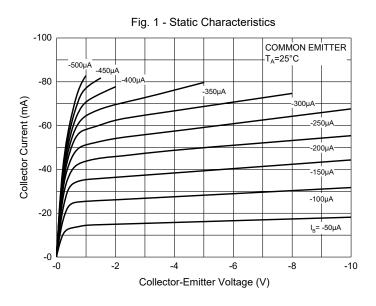
Electrical Characteristics @ 25°C Unless Otherwise Specified

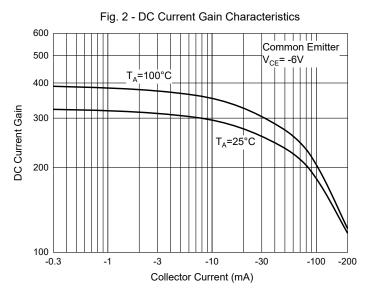
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-60			V	I _C =-50μA, I _E =0
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-50			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-6			V	I _E =-50μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-0.1	μA	V _{CB} =-60V, I _E =0
Emitter-Base Cutoff Current	I _{EBO}			-0.1	μA	V_{EB} =-6V, I_C =0
DC Current Gain	h _{FE}	120		560		V_{CE} =-6V, I_{C} =-1mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.5	V	I _C =-50mA, I _B =-5mA
Transition Frequency	f _T		140		MHz	V _{CE} =-12V, I _C =-2mA, f=30MHz
Output Capacitance	C _{ob}			5	pF	V _{CB} =-12V, I _C =0, f=1MHz

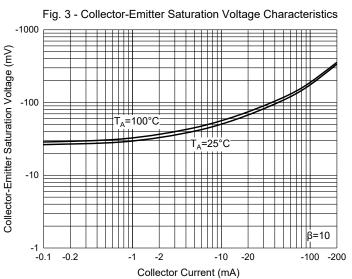
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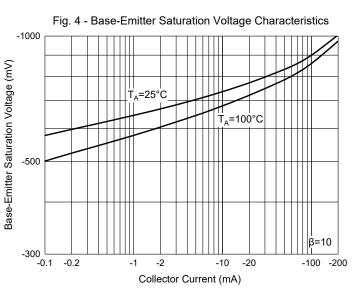


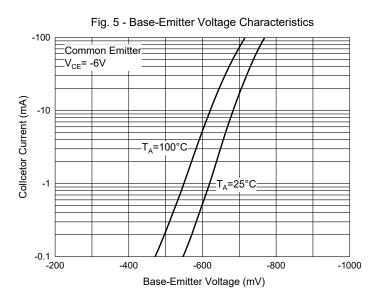
Curve Characteristics

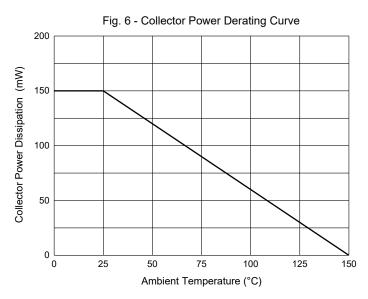














Ordering Information

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

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