

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Halogen free available upon request by adding suffix "-HF"
- Power amplifier applications
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	25	V
V _{CBO}	Collector-Base Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	1	A
Pc	Collector power dissipation	500	mW
TJ	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

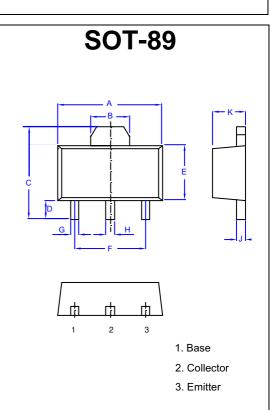
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Туре	Max	Units
OFF CHARA	CTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage $(I_c=2mAdc, I_B=0)$	25			Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage $(I_c=10\mu Adc, I_E=0)$				Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage $(I_E=10\mu Adc, I_C=0)$	5			Vdc
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =20Vdc,I _E =0)			0.1	µAdc
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =4Vdc, I _C =0)			0.1	µAdc
ON CHARA	CTERISTICS				
h _{FE}	Forward Current Transfer ratio (I _c =500mAdc, V _{cE} =10Vdc) (I _c =1.0Adc, V _{cE} =5Vdc)	85 50		340	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =500mAdc, I _B =50mAdc)			0.4	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (I _c =500mAdc,I _B =50mAdc)			1.2	Vdc
f _T	Transistor Frequency (I _c =50mAdc, V _{ce} =10Vdc, f=200MHz)		200		MHz
C_{ob}	Collector Output Capacitance $(V_{CB}=10Vdc, I_{E}=0, f=1MHz)$		20		pF
Classific	cation OF hreen				

VIGSSIIIU				
Rank	Q	R	S	
Range	85-170	120-240	170-340	
Marking	ZQ	ZR	ZS	

2SD874-Q 2SD874-R 2SD874-S

NPN Silicon Power Transistors



DIMENSINS					
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
А	.173	.181	4.39	4.60	
В	.063	.071	1.60	1.80	
С	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	-	3.00	-	TYP
G	.013	.019	0.33	0.48	
Н	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel 1 Kpcs/Reel

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

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