

Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF" Small Flat Package
- Low collector-to-emitter saturation voltage.
- Fast switching speed. Epoxy meets UL 94 V-0 flammability rating •
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	400	V
V _{CBO}	Collector-Base Voltage	400	V
V _{EBO}	Emitter-Base Voltage	5.0	V
l _c	Collector Current	0.2	A
Pc	Collector 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 Typ Max Units

OFF CHARACTERISTICS					
V _{(BR)CBO}	Collector-Base Breakdown Voltage	400			Vdc
V _{(BR)CEO}	(I _c =10μAdc, I _E =0) Collector-Emitter Breakdown Voltage (ξ=1.0mAdc, I _B =0)	400			Vdc
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (t=10µAdc, lc=0)	5.0			Vdc
I _{сво}	Collector Cutoff Current (V _{CB} =300Vdc,I _E =0)			0.1	µAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =4.0Vdc, I _C =0)			0.1	mAdc

ON CHARACTERISTICS

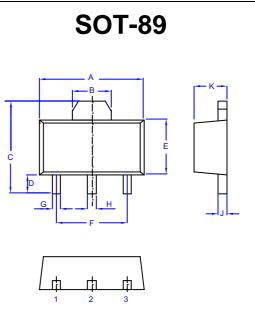
h _{FE}	DC Current Gain (I _c =50mAdc, V _{CE} =10Vdc)	60		200	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I_c =50mAdc, I_B =5mAdc)			0.6	Vdc
V _{BE(sat)}	Collector-Emitter Saturation Voltage (I_c =50mAdc, I_B =5mAdc)			1.0	Vdc
f _T	Gain-Bandwidth product (V _{CE} =30V, I _C =10mA,)		70		MHz
Cob	Out Capacitance (V _{CB} =30V, f=1.0MHz,IE=0)		4		pF

hFE_[1] CLASSIFICATION

Rank	D	E	
Range	60-120	100-200	
Marking	CN		

2SC4548-D 2SC4548-E

NPN Epitaxial Planar Silicon Transistors





- 2. Collector
- 3. Emitter

DIM	INC	HES	N	IM	NOTES
	MIN	MAX	MIN	MAX	
А	.173	.181	4.39	4.60	
В	.061		1.55		REF.
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 1Kpcs/Reel

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

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