

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Min Typ Max Units

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2SC4548-D 2SC4548-E

Features

- 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
lc	Collector Current	0.2	Α
P _C	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

Parameter

OFF CHARACTERISTICS					
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =10uAdc, I _E =0)	400	1		Vdc
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (L=1.0mAdc, IB=0)	400			Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (½=10uAdc, l _C =0)	5.0	1		Vdc
Ісво	Collector Cutoff Current (V _{CB} =300Vdc,I _E =0)			0.1	uAdc
I _{EBO}	Emitter Cutoff Current			0.1	mAdc

ON CHARACTERISTICS

Symbol

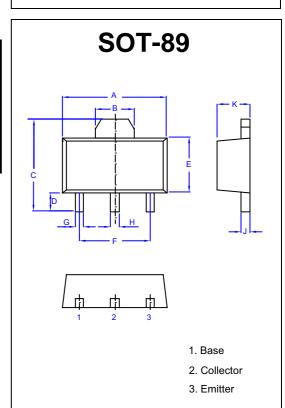
ON OUR MANUEL CONTROL					
h _{FE}	DC Current Gain (I _C =50mAdc, V _{CE} =10Vdc)	60		200	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =50mAdc, I _B =5mAdc)			0.6	Vdc
$V_{BE(sat)}$	Collector-Emitter Saturation Voltage (I _C =50mAdc, I _B =5mAdc)			1.0	Vdc
f _T	Gain-Bandwidth product (V _{CE}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

hFE₁₁₁ CLASSIFICATION

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

 $(V_{EB}=4.0Vdc, I_{C}=0)$

NPN Epitaxial Planar Silicon Transistors



DIMENSINS					
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	1
Α	.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&Reel1Kpcs/Reel

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