

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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Min

Max Units

2N5551

NPN General Purpose Amplifier Transistor

TO-92 A B C C STRAIGHT LEAD BENT LEAD BULK PACK AMMO PACK

DIMENSIONS					
	INCHI	ES	MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
С	.500		12.70		
D	.016	.020	0.41	0.63	
Е	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.

Features

- This device is designed for general purpose high voltage amplifiers and gas discharge display drivers.
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking:Type number
- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	160 V	
V _{CBO}	Collector-Base Voltage	180	V
V_{EBO}	Emitter-Base Voltage	6.0	V
Ι _c	Collector Current	600	mA
Pc	Collector Power Dissipation	625	mW
T_J	Operating 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)CEO}	Collector-Emitter Voltage*			
	(lc=1.0mAdc, I _B =0)	160		Vdc
$V_{(BR)CBO}$	Collector-Base Voltage			
	(I _c =100uAdc, l _∈ =0)	180		Vdc
$V_{(BR)EBO}$	Emitter-Base Voltage			
	(I _E =10uAdc, I _C =0)	6.0		Vdc
Ісво	Collector Cutoff Current			
	(V _{CB} =35Vdc, =0)		50	nAdc
	(V _{CB} =120Vdc, I _E =0, T _A =100°C)		50	uAdc
I _{EBO}	Emitter Cutoff Current		50	nAdc
	(V _{EB} =5.0Vdc, _b =0)			

ON CHARACTERISTICS

Symbol

h _{FE}	DC Current gain			
	(I _c =1.0mAdc, V _{cE} =5.0Vdc)	80		
	(I _c =10mAdc, V _{ce} =5.0Vdc)	80	300	
	$(I_{C}=50 \text{mAdc}, V_{CE}=5.0 \text{Vdc})$	30		
V _{CE(sat)}	Collector-Emitter Saturation Voltage		0.5	Vdc
` '	(l _c =50mAdc, l _s =5.0mAdc)			
V _{BE(sat)}	Base- Emitter Voltage		1.0	Vdc
(,	(b=5.0mAdc, lc=50mAdc)			

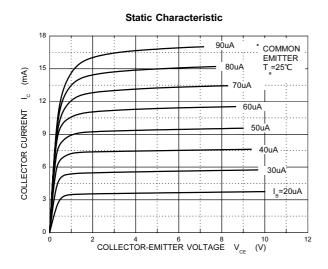
^{*} Pulse Test: Pulse Width<300us, Duty Cycle<2.0%

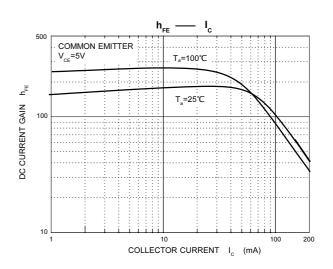


ON CHARACTERISTICS

f _T	Transistor Frequency	100	300	MHz
	(V _{CE} =10Vdc, I _C =10mAdc)			
C_{ob}	Collector Output Capacitance (V _{CB} =10Vdc, I ₌ =0, f=1.0MHz)		6.0	pF
C _{ibo}	Input Capacitance (V _{CE} =10Vdc, l _C =0, f=1.0MHz)		20	pF

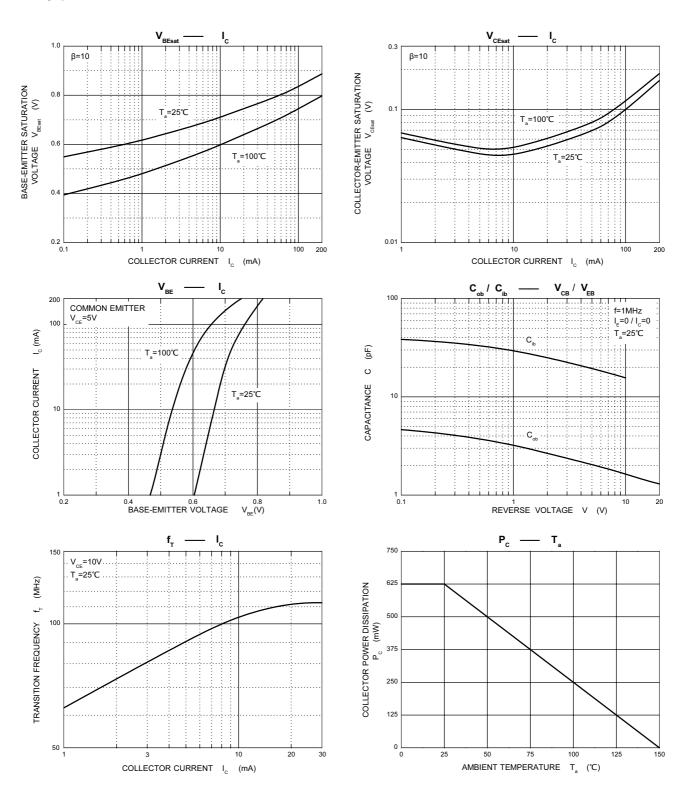
Typical Characteristics







Typical Characteristics





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Ordering Information:

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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

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