



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

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Features

- Epitaxial Die Construction
- For Switching and AF Amplifier Applications
- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-45	V
V_{CBO}	Collector-Base Voltage	-50	V
V_{EBO}	Emitter-Base Voltage	-6.0	V
Ic	Collector Current-Continuous	-100	mA
P_d	Power Dissipation	150	mW
TJ	Operating Junction Temperature	-55 to +150	$^{\circ}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

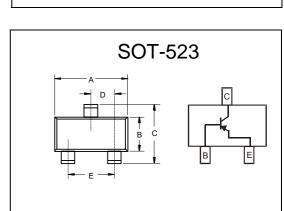
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =-10mA, I _B =0)	-45			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =-10uA, I _B =0)	-50			V
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =-1uA, I _C =0)	-6			V
I _{CBO}	Collector Cutoff Current (VCB = -30V)			-15	nA
h _{FE}	DC Current Gain Current Gain A	125		250	
	(V _{CE} =-5.0V,I _C =-2.0mA) B	220		475	
	C	420		800	
$V_{CE(SAT)}$	Collector-Emitter Saturation Voltage (Ic = -10mA, IB = -0.5mA)			-300	mV
	$(I_C = -100 \text{mA}, I_B = -5.0 \text{ mA})$			-650	
VBE(SAT)	Base-Emitter Saturation Voltage $(I_C = -10\text{mA}, I_B = -0.5\text{mA})$ $(I_C = -100\text{mA}, I_B = -5.0\text{mA})$		-700 -900		mV
VBE(ON)	Base-Emitter Voltage (V _{CE} = -5.0V, I _C = -2.0mA) (V _{CE} = -5.0V, I _C = -10mA)	-600 		-750 -820	mV
Noise Figure	NF (I _C = -0.2mA, V _{CE} = -5.0V, R _S = $2.0K\Omega$, f = $1.0KHz$, BW = $200Hz$)			10	dB
f _T	Transition Frequency (V _{CE} = -5.0V, I _C = -10mA,f=100MHz)	100			MHz
Сов	Output Capacitance (V _{CB} = -10V, f = 1.0MHz)			4.5	pF

Classification OF h FE

Rank	AT	ВТ	СТ
Marking	3E	3F	3G

PNP SMALL SIGNAL SURFACE MOUNT TRANSISTOR



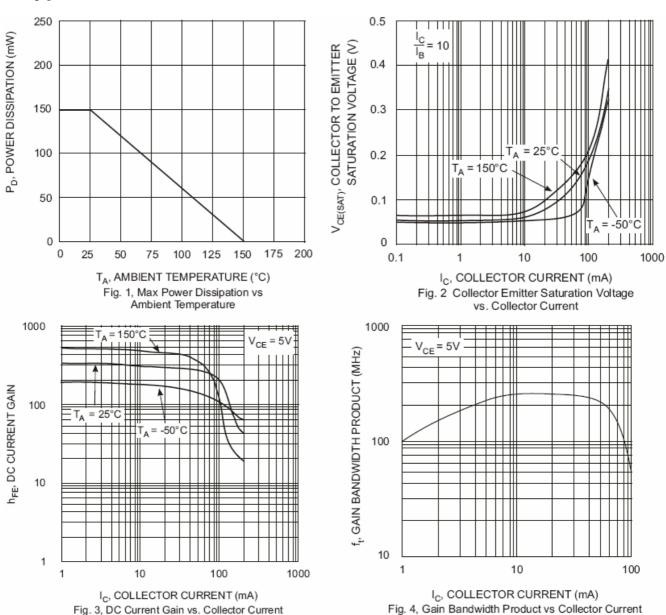
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.059	.067	1.50	1.70	
В	.030	.033	0.75	0.85	
С	.057	.069	1.45	1.75	
D	.020 Nominal		0.50Nominal		
Е	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
Н	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	

BC857AT,BT,CT



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Typical Characteristics





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Ordering Information:

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

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