

Pb

Micro Commercial Components

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Features

- Power switching application
- Low frequency power amplifier application
- Epoxy meets UL 94 V-0 flammability rating
- Moisure 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 -30		V
V_{CBO}	Collector-Base Voltage -35		V
V_{EBO}	Emitter-Base Voltage	-5.0	V
l _c	Collector Current, Continuous	-0.8	Α
P_{D}	Power Dissipation	0.2	W
TJ	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature -55		οС

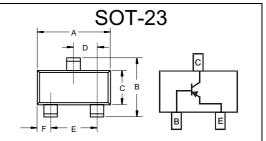
Electrical Characteristics @ 25°C Unless Otherwise Specified

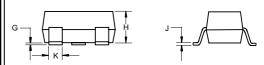
Symbol	Parameter	Min	Туре	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* (I _C =-10mAdc, I _B =0)	-30			Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-1mAdc, I _E =0)	-35			Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =-1mAdc, I _C =0)	-5.0			Vdc
I _{CBO}	Collector cut-off Current (V _{CB} =-30Vdc, I _E =0			-0.1	uAdc
I _{EBO}	Emitter cut-off Current (V _{EB} =-5Vdc, I _C =0			-0.1	uAdc
h _{FE}	DC Current Gain (I _C =-100mAdc, V _{CE} =-1.0Vdc) (I _C =-800mAdc, V _{CE} =-1.0Vdc)	100 40		320	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =-500mAdc, I _B =-20mAdc)			-0.4	Vdc
V_{BE}	Base-Emitter Voltage (I _c =-10mAdc, V _{cE} =-1Vdc)	-0.5		-0.8	Vdc
f⊤	Transition Frequency (I _c =-10mAdc, V _{CE} =-5Vdc)		250		MHz
C _{ob}	Collector output capacitance (I _E =0, V _{CB} =-10Vdc,f=1MHz)		13		pF

CLASSIFICATION OF hfe(1)

		.,
Rank	0	Y
Range	100-200	160-320
MARKING	Ю	IY

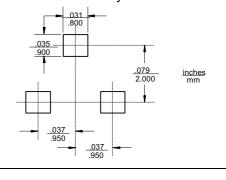
PNP General Purpose Amplifier





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

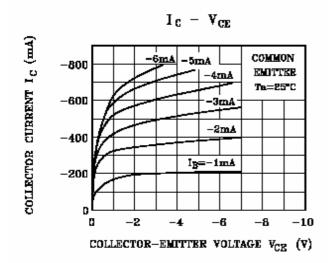
Suggested Solder Pad Layout

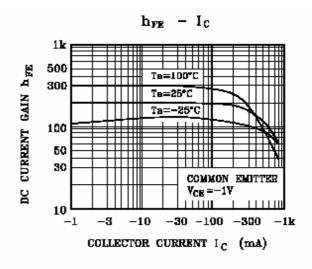


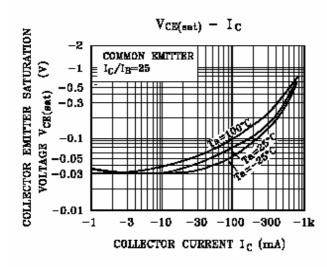


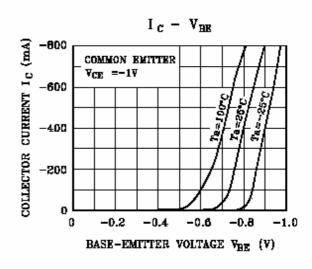
2SA1298

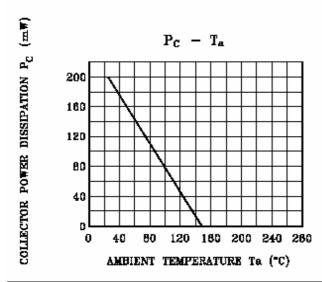
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Ordering Information:

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

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