

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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2SB1184-P 2SB1184-Q 2SB1184-R

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Low Collector Saturation Voltage
- Execllent current-to-gain characteristics
- Maximum Thermal Resistance: 125°C/W Junction to Ambient

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-50	V
V_{CBO}	Collector-Base Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
Ic	Collector Current	-3.0	Α
Pc	Collector power dissipation	1.0	W
TJ	Junction Temperature	150	$^{\circ}\!\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$

Electrical Characteristics @ 25° Unless Otherwise Specified

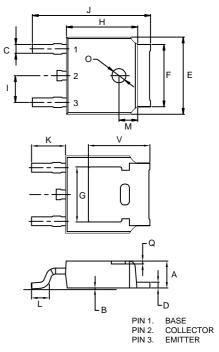
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Symbol	Parameter	Min	Тур	Max	Units
V _{(BR)CBO}	Collector-base Breakdown Voltage (I _C =-50uAdc, I _E =0)	-60			Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _C =-1mAdc, I _B =0)	-50			Vdc
$V_{(BR)EBO}$	Emitter-base Breakdown Voltage (I _E =-50uAdc, I _C =0)	-5			Vdc
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =-40Vdc,I _E =0)			-1.0	uAdc
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =-4Vdc, I _C =0)			-1.0	uAdc
h _{FE(1)}	DC Current Gain (I _C =-0.5Adc, V _{CE} =-3.0Vdc)	82		390	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I _C =-2Adc, I _B =-200mAdc)			-1.0	Vdc
f _T	Transition Frequency (V _{CE} =-5Vdc, I _C =-500mAdc,f=30MHz)		70		MHz
C _{ob}	Collector output capacitance (V _{CB} =-10Vdc, I _E =0,f=1.0MHz)		50		pF

CLASSIFICATION OF HELD

02110011101101101101101101				
Rank	Р	Q	R	
Range	82-180	120-270	180-390	

PNP Silicon Epitaxial Transistors

DPAK



BINENIOLONIO					
DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		
Н	0.236	0.244	6.00	6.20	
- 1	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.114		2.	90	
L	0.055	0.067	1.40	1.70	
М	0.063		1.	60	
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.211		5.	35	

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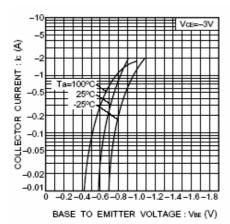


Fig.1 Grounded emitter propagation characteristics

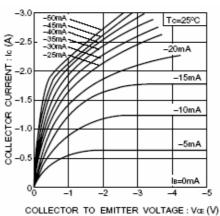


Fig.2 Grounded emitter output characteristics (I)

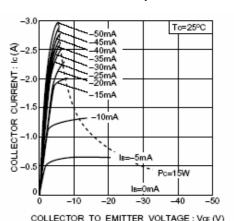


Fig.3 Grounded emitter output characteristics (II)

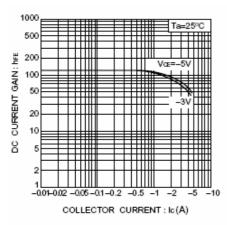


Fig.4 DC current gain vs. collector current (I)

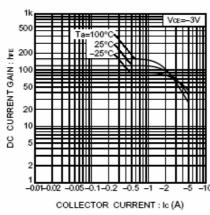


Fig.5 DC current gain vs. collector current (II)

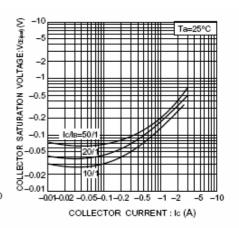


Fig.6 Collector-emitter saturation voltage vs.collector current

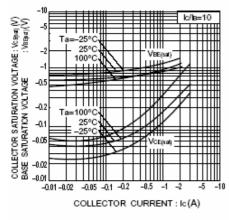


Fig.7 Collector-emitter saturation voltage vs. collector current Base-emitter saturation voltage vs. collector current

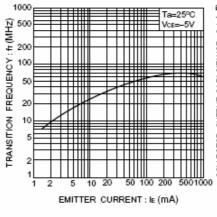


Fig.8 Gain bandwidth product vs. emitter current

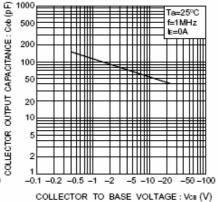


Fig.9 Collector output capacitance vs. collector base voltage

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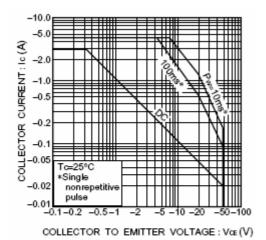


Fig.10 Safe operation area (2SB1184)



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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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