



PBSS4130T

NPN General Purpose Amplifier

Features

- Low collectoremitter saturation voltage
- High current capability
- Improved device reliability due to reduced heat generation
- Epoxy meets UL94 V0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Marking:3C

Applications

- Supply line switching circuits
- Battery management
- DC-DC convertor
- Strobe flash
- Motor and lamp driver

Maximum Ratings (Ta=25)

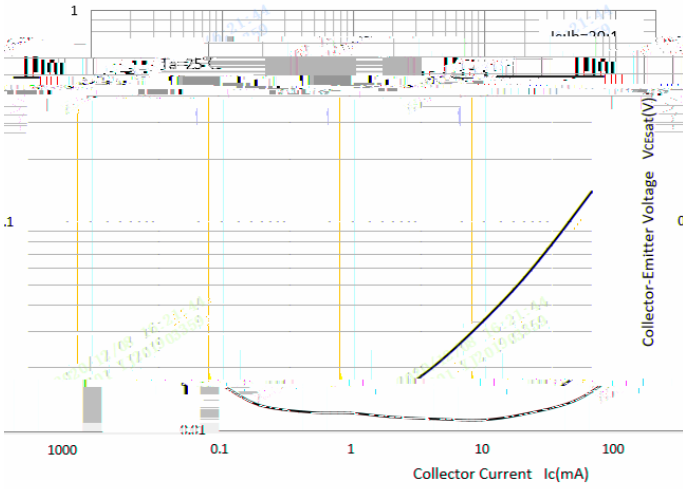
Item	Symbol	Unit	Conditions	Value
CollectorEmitter Voltage	V_{CEO}	V	$I_C=1mA, I_B=0$	30
CollectorBase Voltage	V_{CBO}	V	$I_C=100\mu A, I_E=0$	40
EmitterBase Voltage	V_{EBO}	V	$I_E=100\mu A, I_C=0$	5
Collector Current	I_C	A		1
Collector Power Dissipation	P_C	mW		300
Thermal Resistance From Junction To Ambient	R_{JA}	/W		417

HPD9atpD1E5(W)ppD

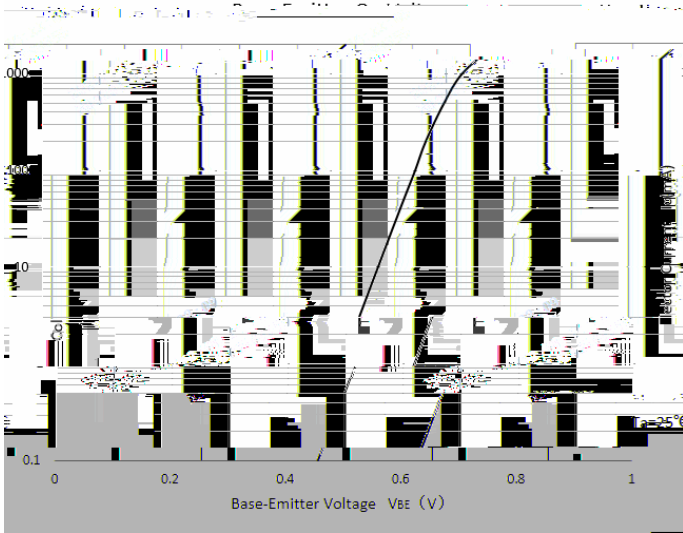
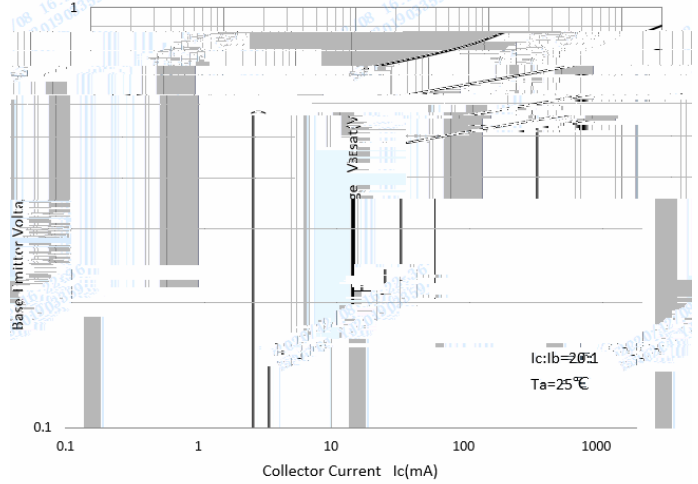


PBSS4130T

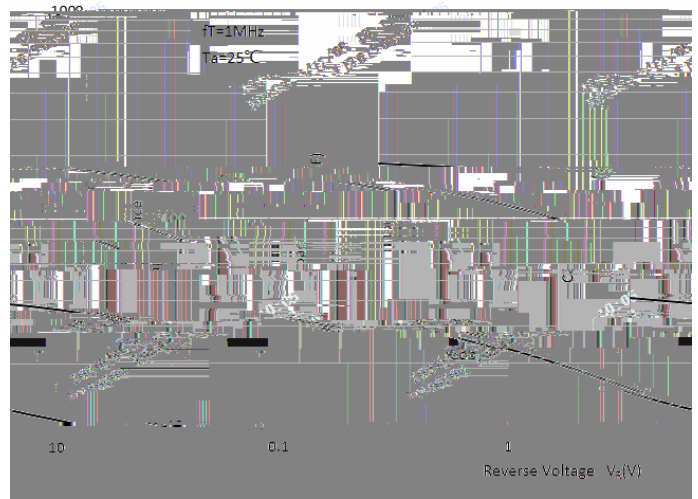
Collector-Emitter Saturation Voltage



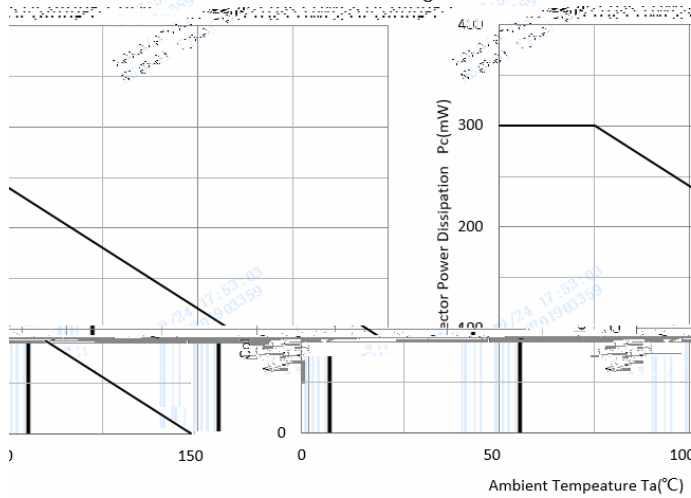
Base-Emitter Saturation Voltage



$C_{ob}/C_{ib}-V_{CB}/V_{EB}$



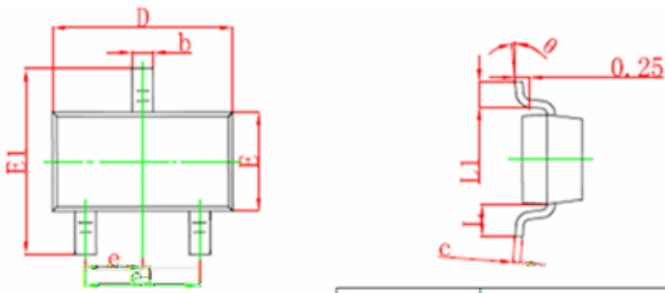
Collector Power Derating Curve





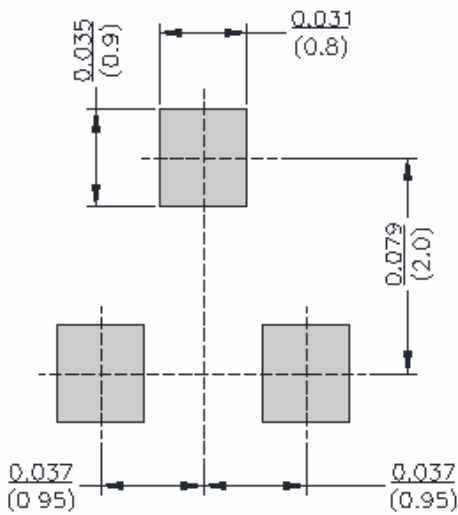
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SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.050	0.035	0.041
B	0.780	0.900	0.030	0.035
C	0.012	0.026	0.0005	0.0010
D	0.000	0.100	0.000	0.0039
E	0.200	0.240	0.0079	0.0094
F	0.250	0.300	0.0098	0.0118
G	0.300	0.500	0.0118	0.0197
H	0.300	0.500	0.0118	0.0197
I	0.300	0.500	0.0118	0.0197
J	0.300	0.500	0.0118	0.0197
K	0.300	0.500	0.0118	0.0197
L	0.300	0.500	0.0118	0.0197
M	0.300	0.500	0.0118	0.0197
N	0.300	0.500	0.0118	0.0197
O	0.300	0.500	0.0118	0.0197
P	0.300	0.500	0.0118	0.0197
Q	0.300	0.500	0.0118	0.0197
R	0.300	0.500	0.0118	0.0197
S	0.300	0.500	0.0118	0.0197
T	0.300	0.500	0.0118	0.0197
U	0.300	0.500	0.0118	0.0197
V	0.300	0.500	0.0118	0.0197
W	0.300	0.500	0.0118	0.0197
X	0.300	0.500	0.0118	0.0197
Y	0.300	0.500	0.0118	0.0197
Z	0.300	0.500	0.0118	0.0197

SOT-23 Soldering Footprint





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Disclaimer

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