



NPN General Purpose Amplifier

Features

- Low collector-emitter 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 °C)

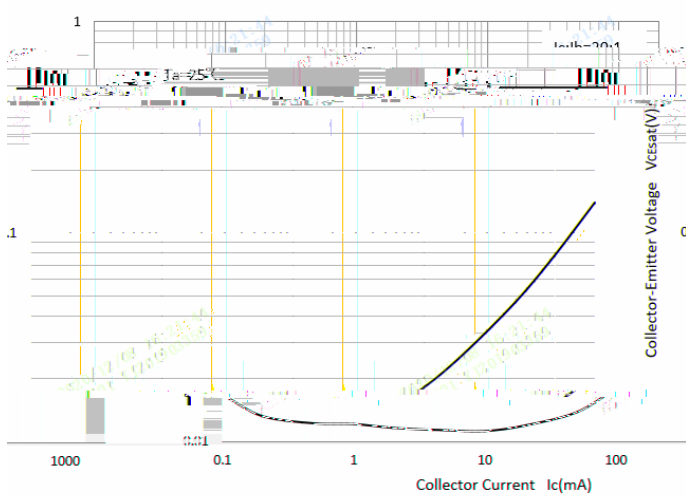
Item	Symbol	Unit	Conditions	Value
Collector-Emitter Voltage	V_{CE0}	V	$I_C=1mA, I_B=0$	30
Collector-Base Voltage	V_{CBO}	V	$I_C=100\mu A, I_E=0$	40
Emitter-Base Voltage	V_{EBO}	V	$I_E=100\mu A, I_C=0$	5
Collector Current	I_C	A		1
Collector Power Dissipation	P_C	mW		300
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	/W		417

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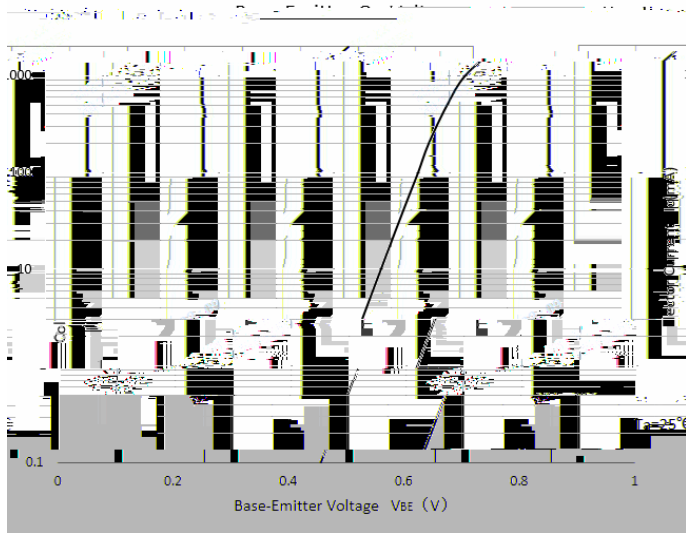
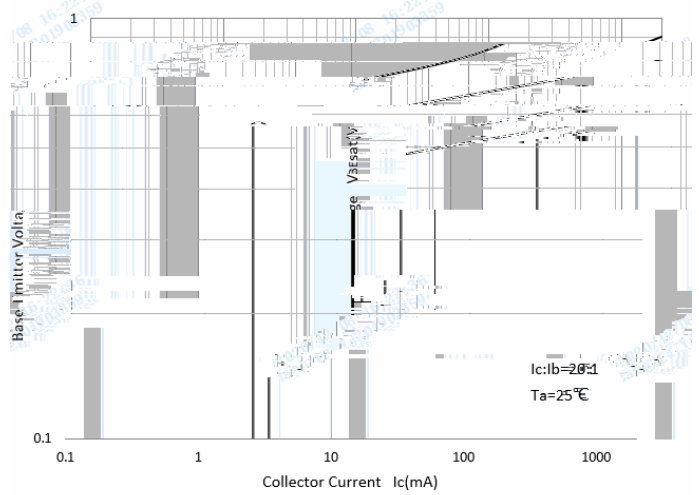


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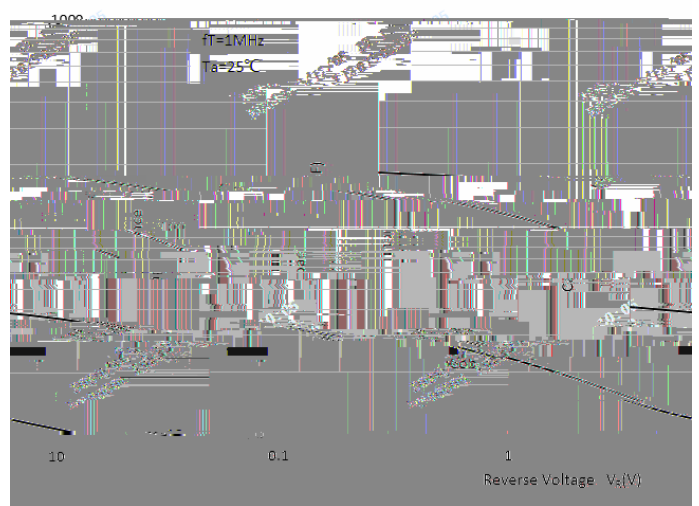
Collector-Emitter Saturation Voltage



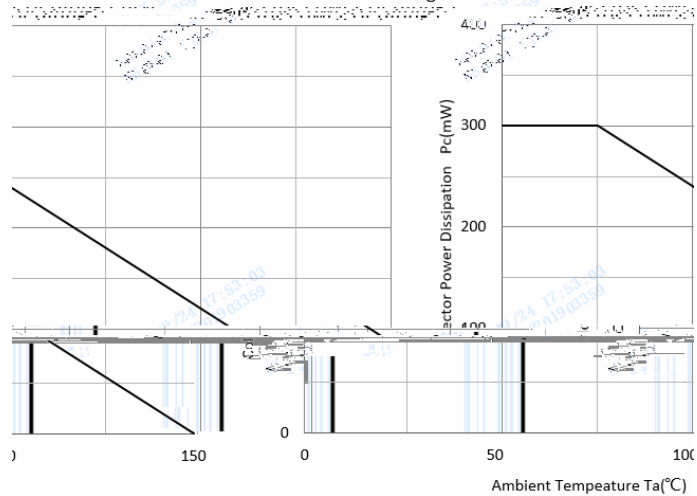
Base-Emitter Saturation Voltage



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

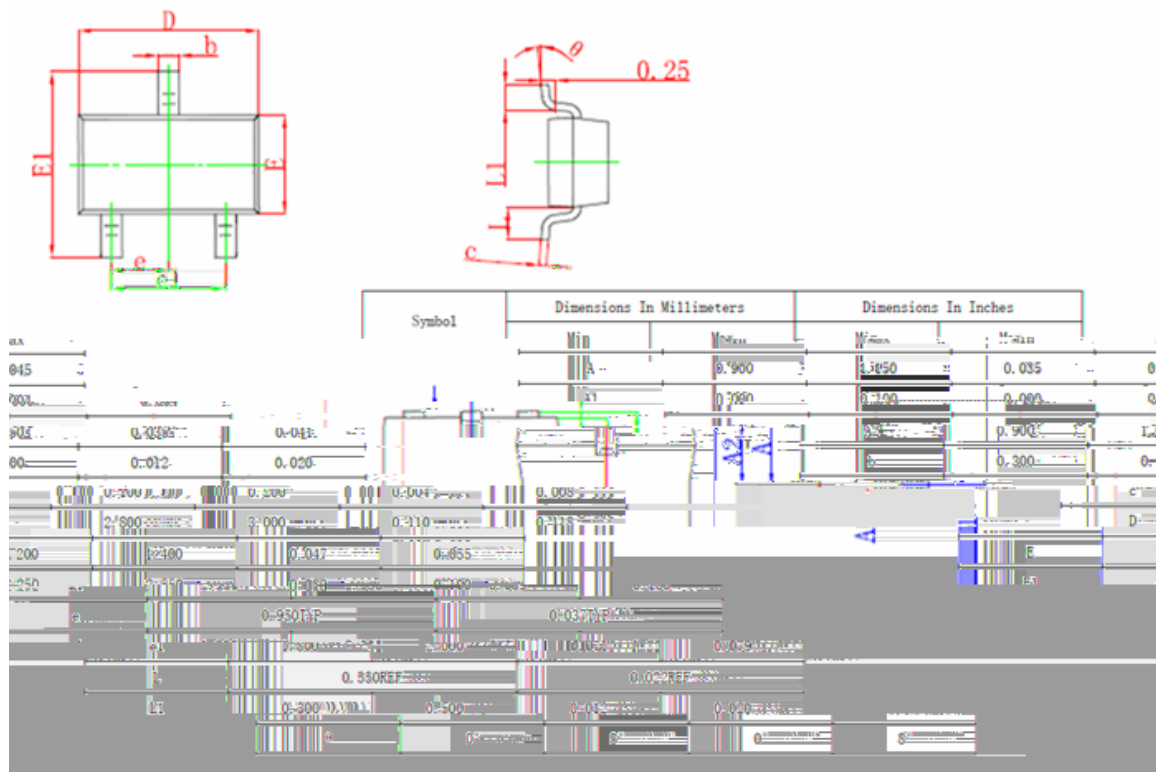


Collector Power Derating Curve

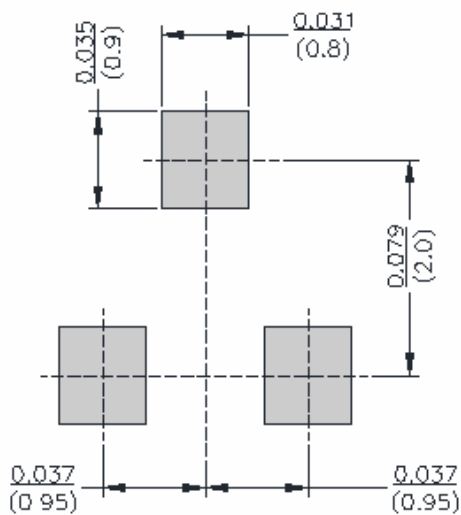




■SOT-23 Package Outline Dimensions



■SOT-23 Soldering Footprint





Disclaimer

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