

Rev.I May.-2023

产品特点

SOT-23 NPN Silicon NPN transistor in a SOT-23 Plastic Package.

主要参数

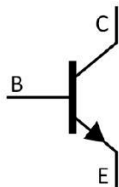
S8550MG

Complementary pair with S8550MG,HF Product.

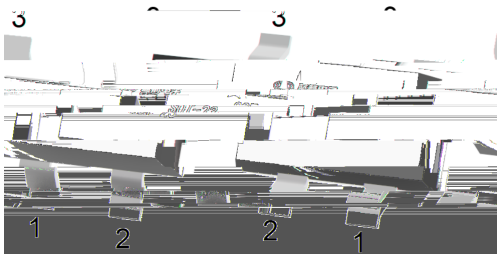
应用

Power amplifier applications.

内部结构图



封装形式



PIN1 Base PIN 2 Emitter PIN 3 Collector

主要参数表

h _{FE} Classifications Symbol	B	C	D
h _{FE(1)} Range	85 160	120 200	160 300
Marking	GY3B	GY3C	GY3D

静态参数

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Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	25	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current	I_C	800	mA
Base Current	I_B	200	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

交流参数

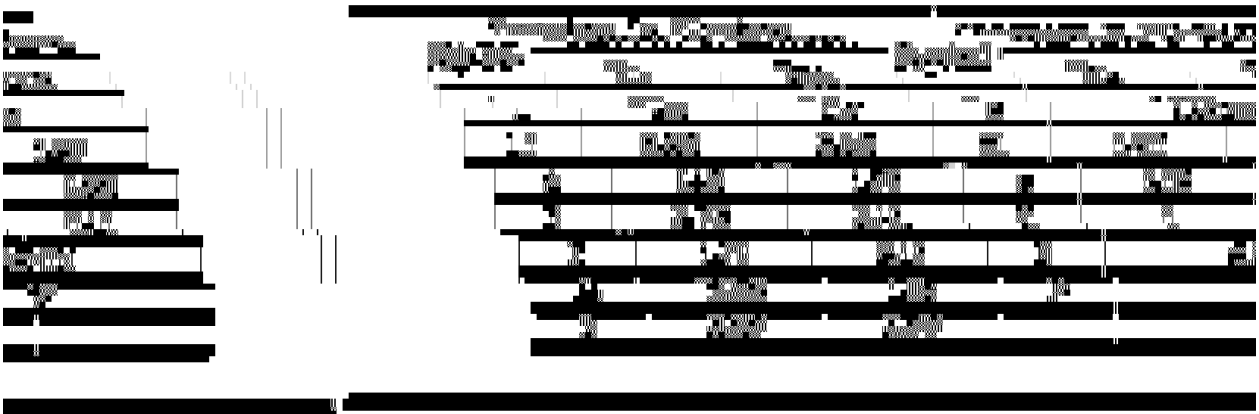
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Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=0.1mA$ $I_E=0$	40			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=2.0mA$ $I_B=0$	25			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=0.1mA$ $I_C=0$	6.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=35V$ $I_E=0$			0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=6.0V$ $I_C=0$			0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1.0V$ $I_C=100mA$	85		300	
	$h_{FE(2)}$	$V_{CE}=1.0V$ $I_C=500mA$	40			
	$h_{FE(3)}$	$V_{CE}=1.0V$ $I_C=5.0mA$	45			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA$ $I_B=50mA$		0.28	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=500mA$ $I_B=50mA$		0.98	1.2	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=1.0V$ $I_C=10mA$		0.66	1.0	V
Transition Frequency	f_T	$V_{CE}=10V$ $I_C=50mA$	100	190		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V$ $I_E=0$ $f=1.0MHz$		9.0		pF

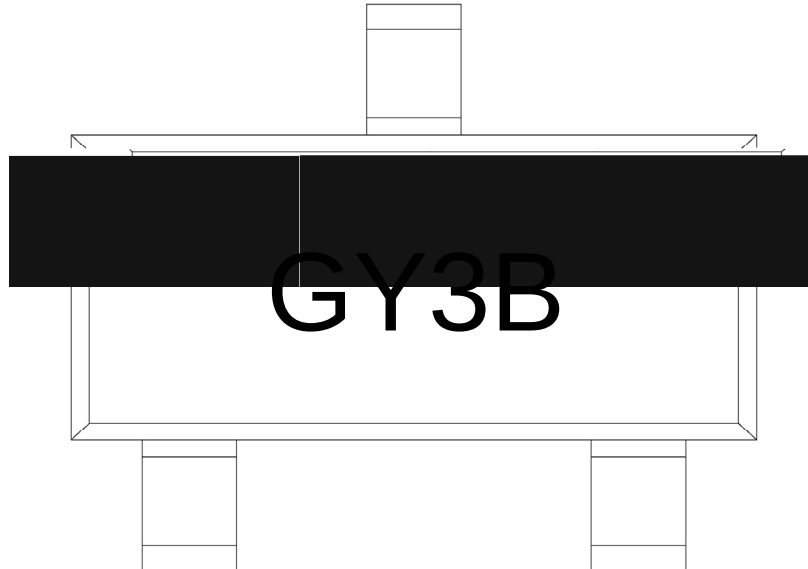
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SQT-23

单位: mm



1. 1



G

Y3

B h_{FE}

Note:

G HF Product Code

Y3 Product Type Code

B h_{FE} Classifications Symbol Code

测试设备 Whp shudwxuh Suriloh i ru LU Uhior z Vroghulq j+Se0l uhh,

Note:

- | | | | |
|---|---------|-----------|---|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | | |