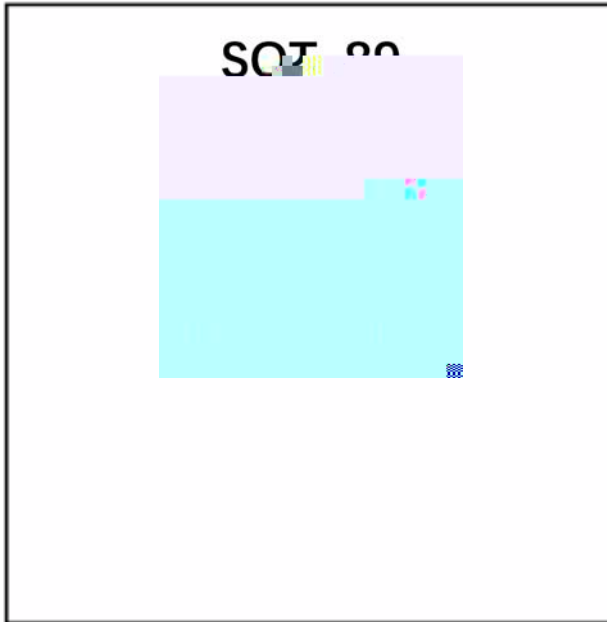


PNP General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Low collector-emitter saturation voltage

Mechanical Data

- Package:** SOT-89
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking:S48

Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CEO}	V	$I_C=-10mA, I_B=0$	-40
Minimum Collector-Base Voltage	V_{CBO}	V	$I_C=-100\mu A, I_E=0$	-40
Minimum Emitter-Base Voltage	V_{EBO}	V	$I_E=-100\mu A, I_C=0$	-5
Collector Current	I_C	A		-2
Collector Power Dissipation	P_C	mW		500
Thermal Resistance From Junction To Ambient	R_{JA}	/W		250
Operation Junction Temperature	T_j			-55 to +150
Storage Temperature	T_{stg}			-55 to +150



PBSS5240X

Electrical Characteristics (Ta=25 unless otherwise noted)

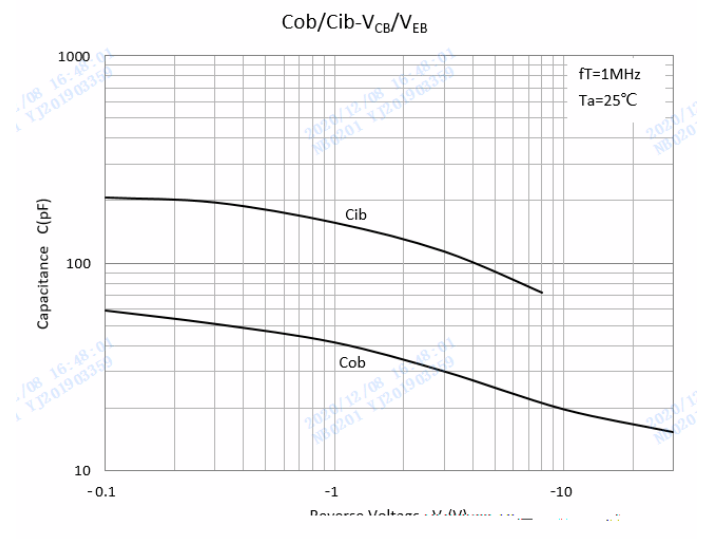
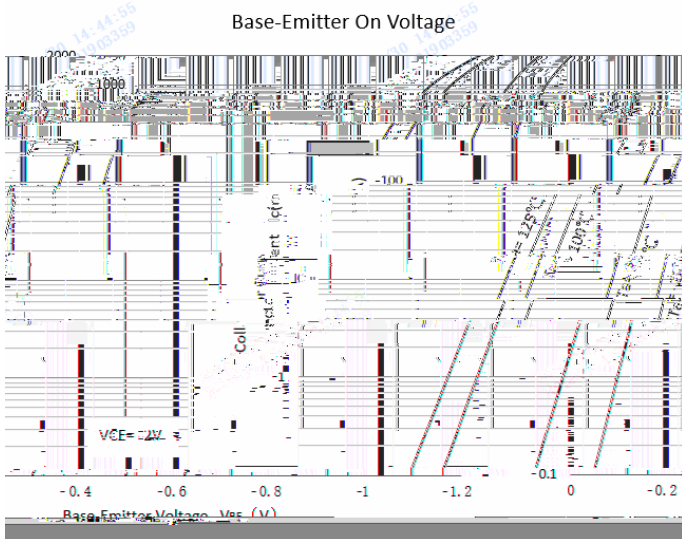
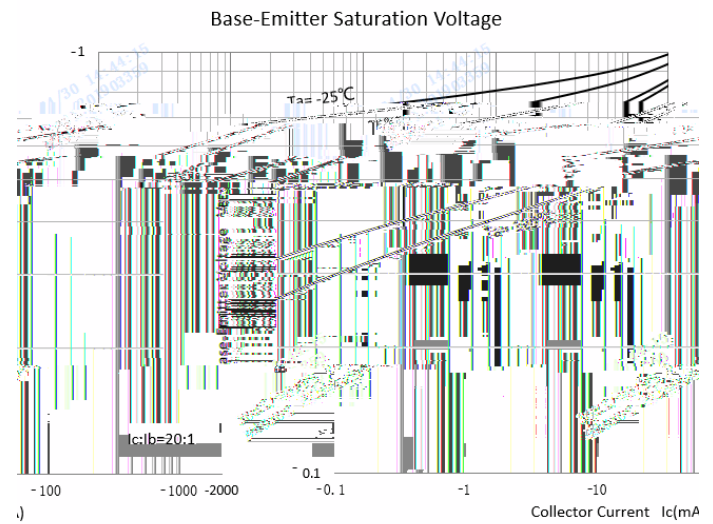
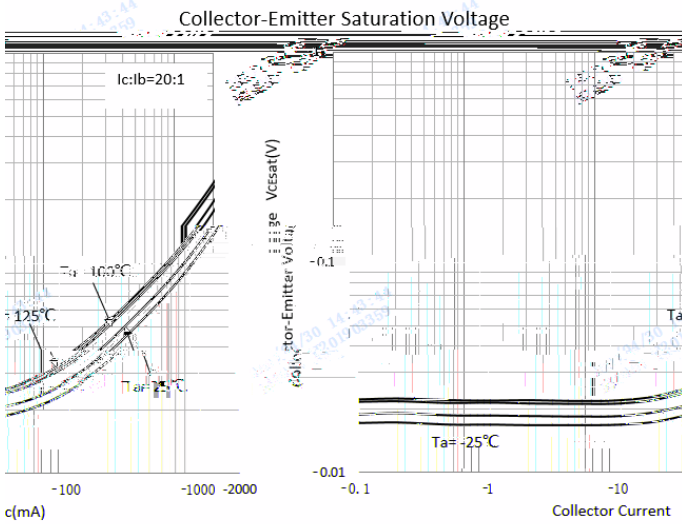
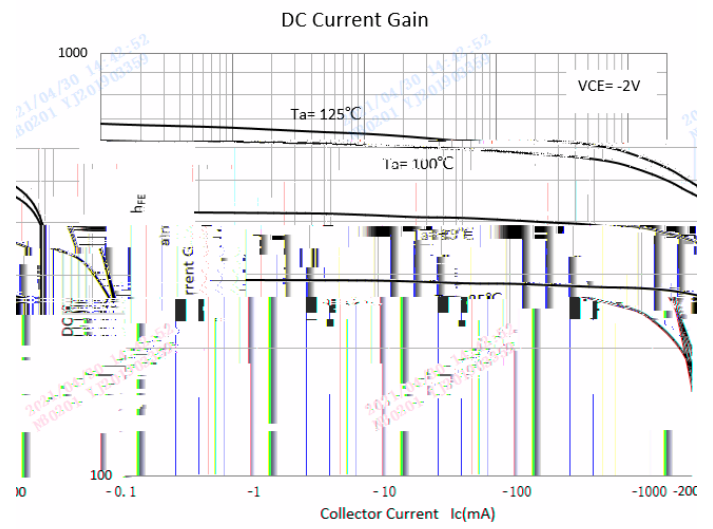
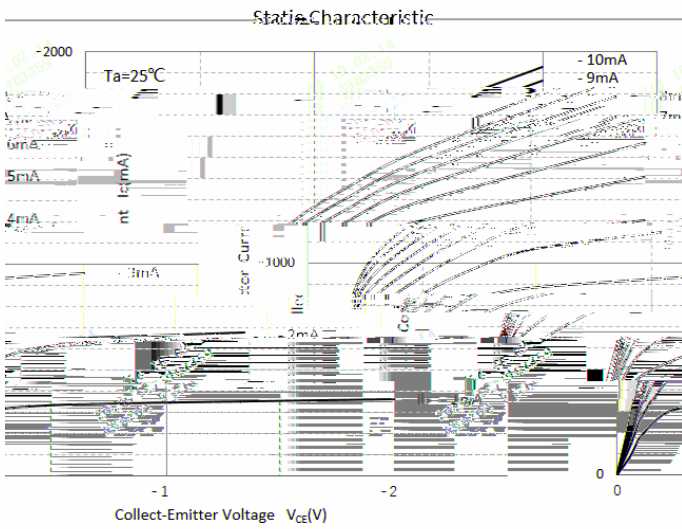
Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Voltage	V_{CE0}	V	$I_C=-10mA, I_B=0$	-40	
Collector-Base Voltage	V_{CBO}	V	$I_C=-100\mu A, I_E=0$	-40	
Emitter-Base Voltage	V_{EBO}	V	$I_E=-100\mu A, I_C=0$	-5	
Collector-base Cut-off Current	I_{CBO}	nA	$V_{CB}=-40V$		-100
Collector-Emitter cut-off current	I_{CEO}	nA	$V_{CE}=-30V$		-100
Base-emitter Cut-off Current	I_{EBO}	nA	$V_{EB}=-5V$		-100
DC Current Gain	h_{FE}		$I_C=-1mA, V_{CE}=-5V$	300	
			$I_C=-500mA, V_{CE}=-5V$	215	
			$I_C=-1A, V_{CE}=-5V$	145	
			$I_C=-2A, V_{CE}=-5V$	55	
Collector-Emitter Saturation Voltage	$V_{CE(sat)1}$	mV	$I_C=-100mA, I_B=-5mA$		-140
	$V_{CE(sat)2}$	mV	$I_C=-500mA, I_B=-50mA$		-170
	$V_{CE(sat)3}$	mV	$I_C=-1A, I_B=-100mA$		-310
	$V_{CE(sat)4}$	mV	$I_C=-2A, I_B=-200mA$		-630
Equivalent On-Resistance	$R_{CE(sat)}$	m	$I_C=-1A, I_B=-100mA$		310
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	$I_C=-1A, I_B=-100mA$		-1.2
Base-Emitter Turn-On Voltage	$V_{BE(on)}$	V	$I_C=-1A, V_{CE}=-5V$		-1.1
Transition frequency	f_T	MHz	$I_C=-100mA, V_{CE}=-10V, f=100MHz$	100	
Collector Capacitance	Cob	pF	$V_{CB}=-10V, I_E=0, f=1MHz$		28

Ordering Information (Example)



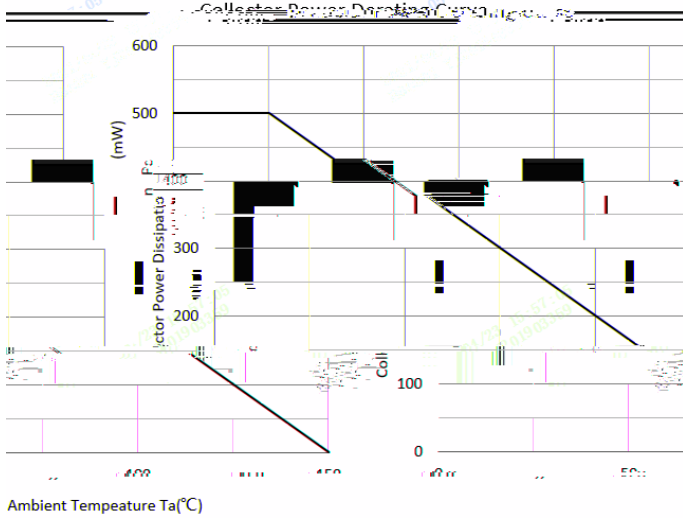
PBSS5240X

Characteristics (Typical)

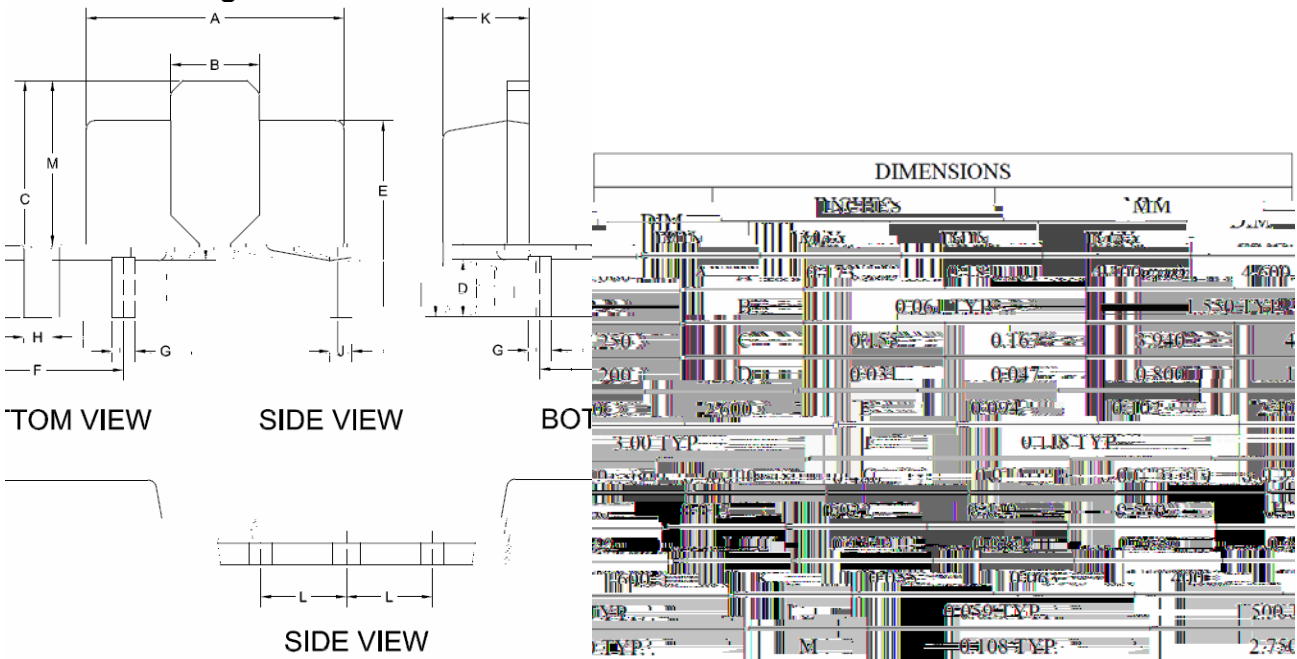




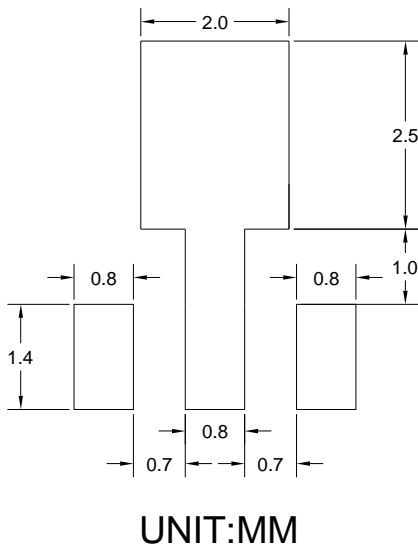
PBSS5240X



SOT-89 Package Outline Dimensions



SOT-89 Suggested Pad Layout





PBSS5240X

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to modify the product specifications without notice.

M= h