

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 $V_{CE(sat)}$ at $I_C = 10\text{mA}$, $I_E = 0$
- 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: 1S

■Maximum Ratings (Ta=25°C unless otherwise noted)

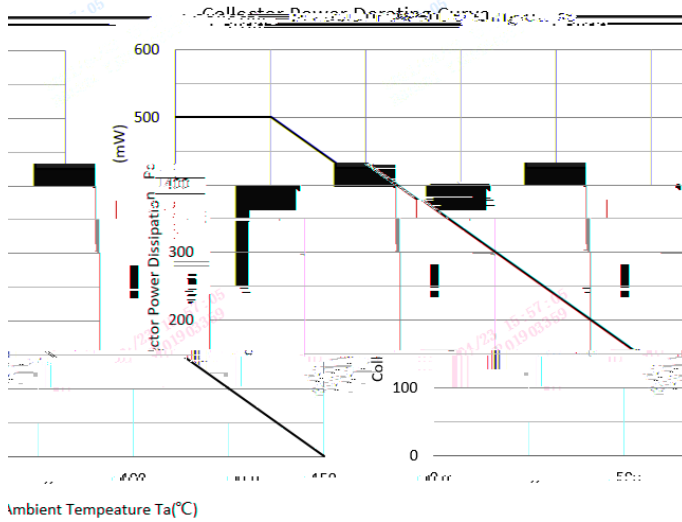
Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CEO}	V	$I_C = -10\text{mA}$, $I_E = 0$	-30
Minimum Collector-Base Voltage	V_{CBO}	V	$I_C = -100\mu\text{A}$, $I_E = 0$	-30
Minimum Emitter-Base Voltage	V_{EBO}	V	$I_E = -100\mu\text{A}$, $I_C = 0$	-6
Collector Current	I_C	A		-3
Collector Power Dissipation	P_C	mW		500
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	/W		250
Operation Junction Temperature	T_j			-55 to +150
Storage Temperature	T_{stg}			-55 to +150



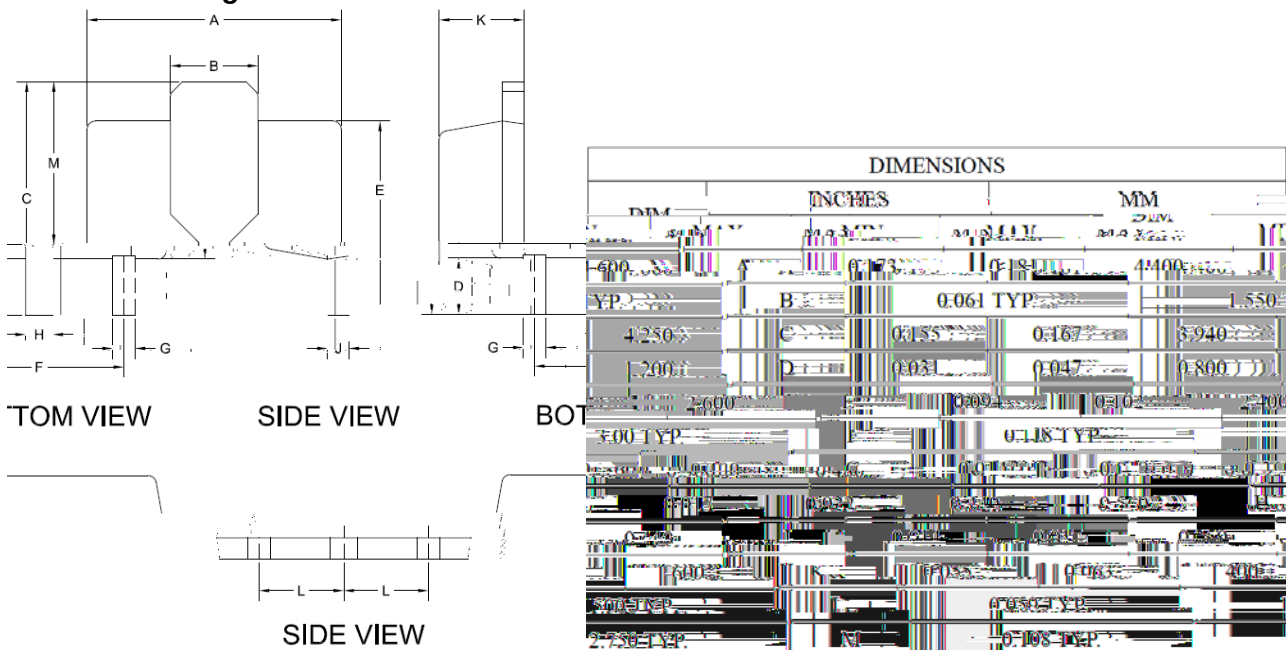
PBSS5330X

■Electrical Characteristics (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Voltage	V_{CE0}	V	$I_C=-10mA, I_B=0$	-30	
Collector-Base Voltage	V_{CBO}	V	$I_C=-100\mu A, I_E=0$	-30	
Emitter-Base Voltage	V_{EBO}	V	$I_E=-100\mu A, I_C=0$	-6	
Collector-base Cut-off Current	I_{CBO}	nA	$V_{CB}=-30V$		-100
Collector-Emitter cut-off current	I_{CES}	nA	$V_{CE}=-30V, V_{BE}=0V$		-100
Base-emitter Cut-off Current	I_{EBO}	nA	$V_{EB}=-5V$		-100
DC Current Gain	h_{FE}		$I_C=-100mA, V_{CE}=-2V$	200	
			$I_C=-500mA, V_{CE}=-2V$	200	
			$I_C=-1A, V_{CE}=-2V$	175	450
			$I_C=-2A, V_{CE}=-2V$	140	
			$I_C=-3A, V_{CE}=-2V$	100	
Collector-Emitter Saturation Voltage	$V_{CE(sat)1}$	mV	$I_C=-500mA, I_B=-50mA$		-70
	$V_{CE(sat)2}$	mV	$I_C=-1A, I_B=-50mA$		-130
	$V_{CE(sat)3}$	mV	$I_C=-2A, I_B=-50mA$		-130



■SOT-89 Package Outline Dimensions



■SOT-89 Suggested Pad Layout



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with
hio n ctp, | es f hnyk