PNP General Purpose Amplifier

Features

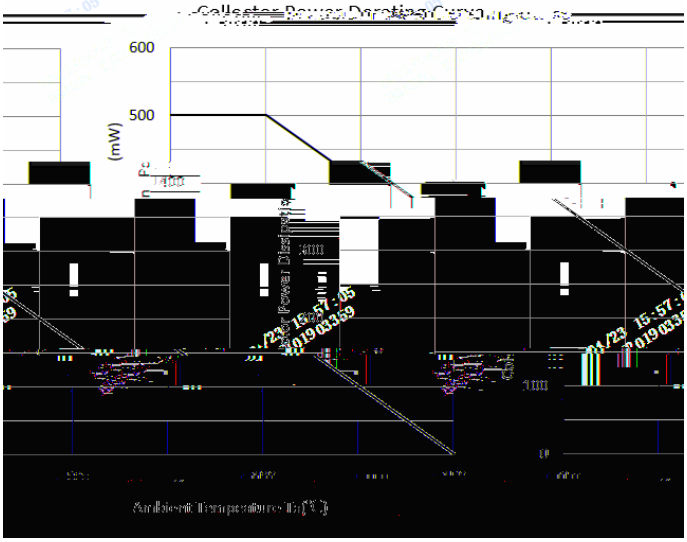
- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix ”HF”
- Moisture Sensitivity Level 1
- Low collector-emitter saturation SOT-89 C ¤ ¡ ض
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
  - **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
  - Marking:1S

■Maximum Ratings (Ta=25 unless otherwise noted)

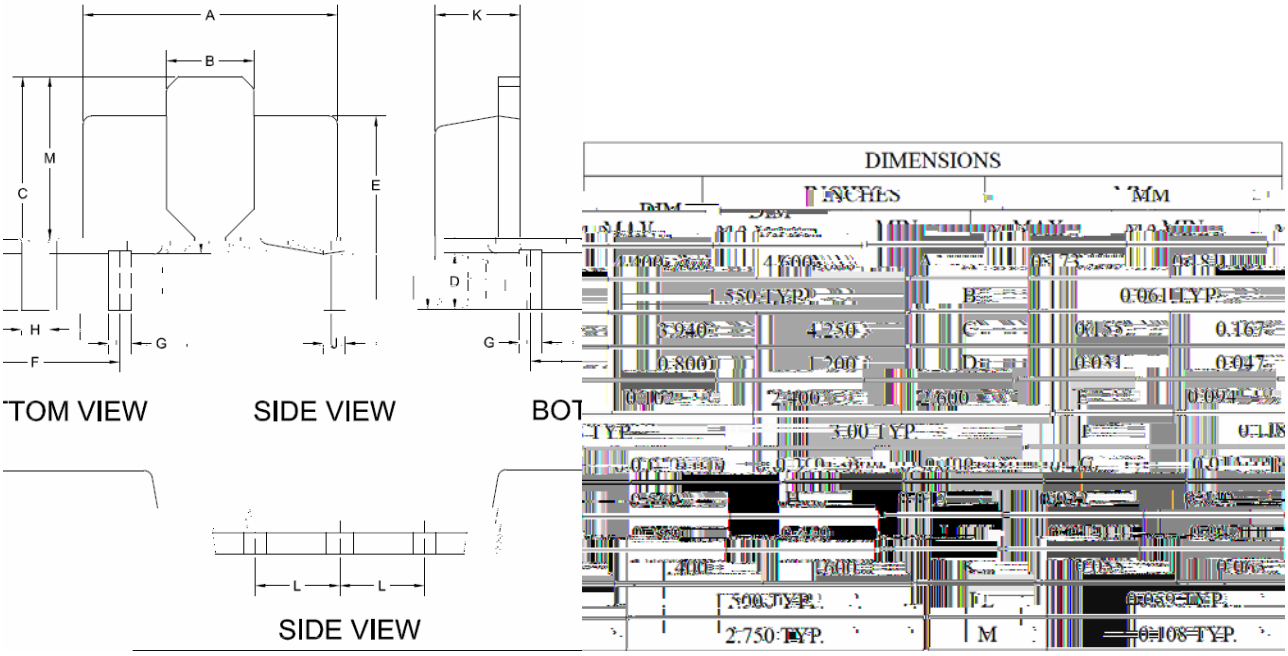
Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CEO}	V	I_C=-10mA, I_B=0	-30
Minimum Collector-Base Voltage	V_{CBO}	V	I_C=-100uA, I_E=0	-30
Minimum Emitter-Base Voltage	V_{EBO}	V	I_E=-100uA, I_C=0	-6
Collector Current	I_C	A		-3
Collector Power Dissipation	P_C	mW		500
Thermal Resistance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

■**Electrical Characteristics** (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Voltage	V_{CEO}	V	I_C=-10mA, I_B=0	-30	
Collector-Base Voltage	V_{CBO}	V	I_C=-100uA, I_E=0	-30	
Emitter-Base Voltage	V_{EBO}	V	I_E=-100uA, 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		



■SOT-89 Package Outline Dimensions



■SOT-89 Suggested Pad Layout

Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with e[illegible]quipment [illegible]