

GLBCP56 NPN SILICON EPITAXIAL TRANSISTOR

Description

The GLBCP56 is designed for use in audio amplifiers and medium power amplifications.

Features

- Collector-Emitter Voltage: $V_{CE0}=80V$
- Complementary to GLBCX53

Package Dimensions

SOT-223

Marking :

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.70	7.30	B	13°TYP.	
C	2.90	3.10	J	2.30 REF.	
D	0.02	0.10	1	6.30	6.70
E	0°	10°	2	6.30	6.70
I	0.60	0.80	3	3.30	3.70
H	0.25	0.35	4	3.30	3.70
			5	1.40	1.80

Absolute Maximum Ratings at $T_a = 25^\circ C$

Parameter	Symbol	Ratings	Unit
Junction Temperature	T_j	+150	$^\circ C$
Storage Temperature Range	T_{STG}	-65 ~ +150	$^\circ C$
Collector to Base Voltage	V_{CBO}	100	V
Collector to Emitter Voltage	V_{CEO}	80	V
Emitter to Base Voltage	V_{EBO}	5	V
Collect Current(DC)	I_C	1	A
Total Power Dissipation	P_D	1.5	W

Electrical Characteristics ($T_a = 25^\circ C$)

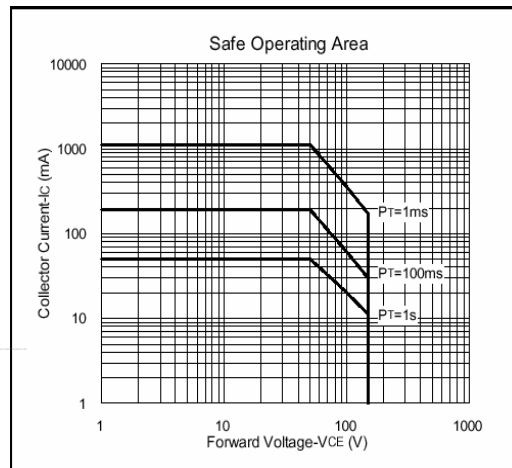
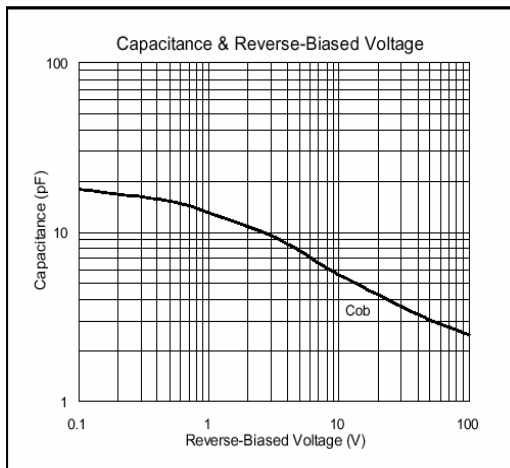
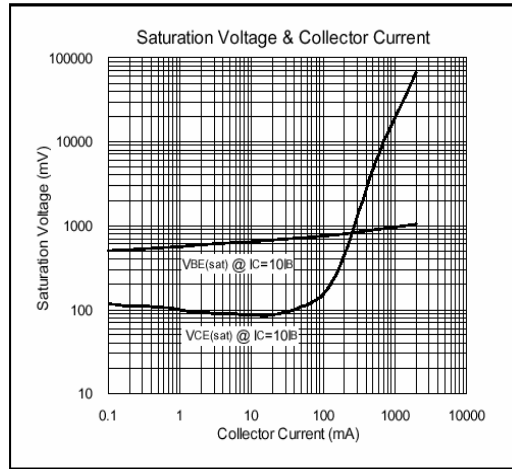
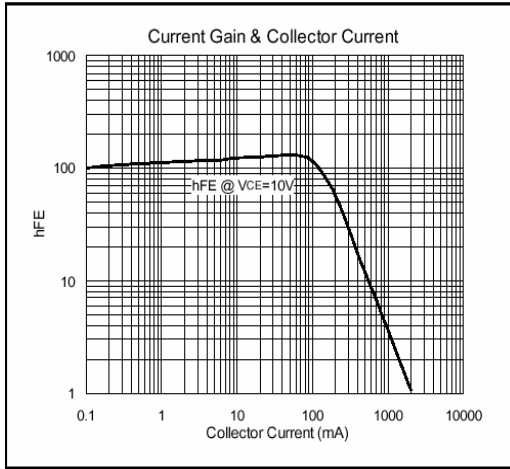
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V_{CBO}	100	-	-	V	$I_C=100\mu A, I_E=0$
V_{CEO}	80	-	-	V	$I_C=1mA, I_B=0$
V_{EBO}	5	-	-	V	$I_E=10\mu A, I_C=0$
I_{CBO}	-	-	100	nA	$V_{CB}=30V, I_E=0$
I_{EBO}	-	-	100	nA	$V_{EB}=5V, I_C=0$
* $V_{CE(sat)1}$	-	-	500	mV	$I_C=500mA, I_B=50mA$
* $V_{BE(on)}$	-	-	1000	mV	$I_C=500mA, V_{CE}=2V,$
* h_{FE1}	63	-	-		$V_{CE}=2V, I_C=5mA$
* h_{FE2}	63	-	250		$V_{CE}=2V, I_C=150mA$
* h_{FE3}	40	-	-		$V_{CE}=2V, I_C=500mA$
f_T	100	-	-	MHz	$V_{CE}=5V, I_C=10mA$

* Pulse Test: Pulse Width $\leq 380\mu s$, Duty Cycle $\leq 2\%$

Classification Of h_{FE2}

Rank	10	16
Range	63 - 160	100 - 250

Characteristics Curve



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