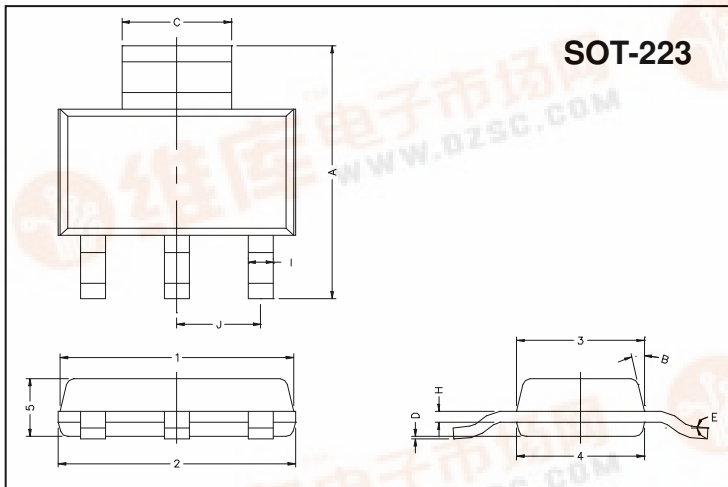


GTM**CORPORATION**ISSUED DATE :2002/11/20
REVISED DATE :2006/01/02D**GLBCP56** NPN SILICON EPITAXIAL TRANSISTOR**Description**

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

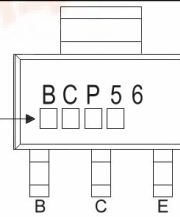
Features

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

Package Dimensions

Marking :

Date Code



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 $T_a = 25^\circ\text{C}$

Parameter	Symbol	Ratings	Unit
Junction Temperature	T_j	+150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 ~ +150	$^\circ\text{C}$
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

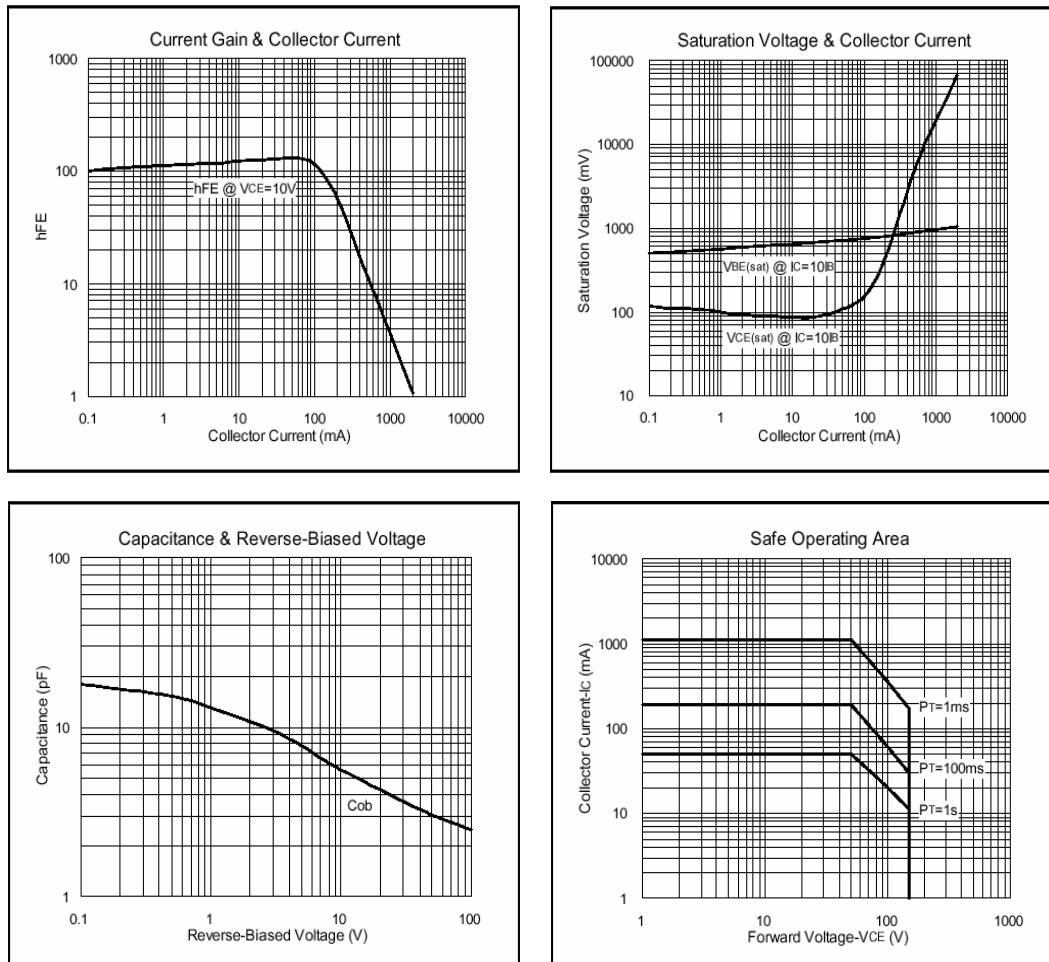
Electrical Characteristics ($T_a = 25^\circ\text{C}$)

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

* Pulse Test: Pulse Width $\leq 380\mu\text{s}$, Duty Cycle $\leq 2\%$ **Classification Of h_{FE2}**

Rank	10	16
Range	63 - 160	100 - 250

Characteristics Curve



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