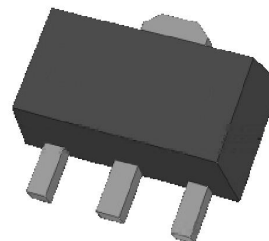


FEATURES

- High current output up to 3A;
- Low saturation voltage.

Applications

- Audio power amplifier;
- DC-DC converter;
- Voltage regulator.



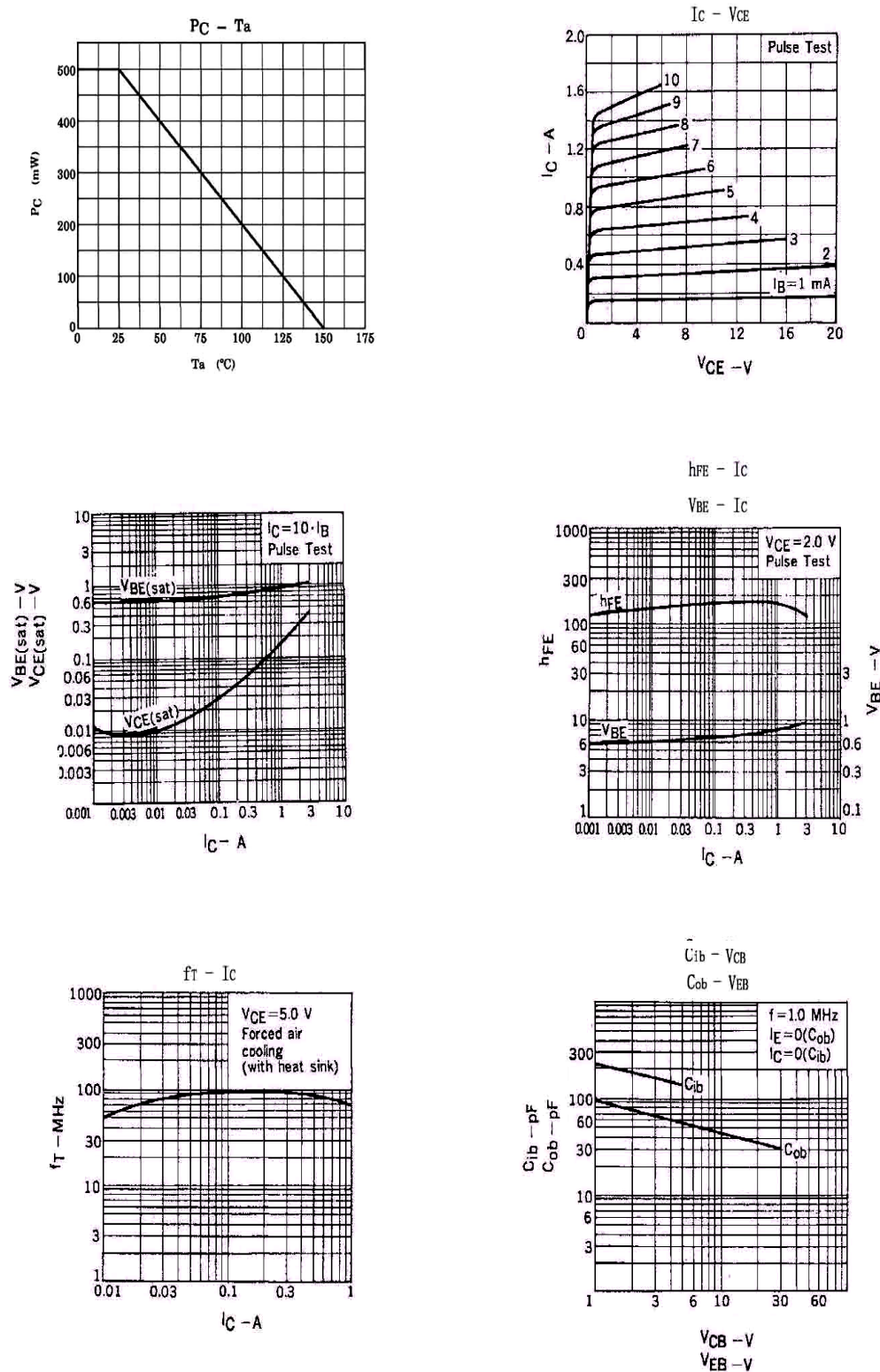
1Base 2Collector 3Emitter

ABSOLUTE MAXIMUM RATINGS

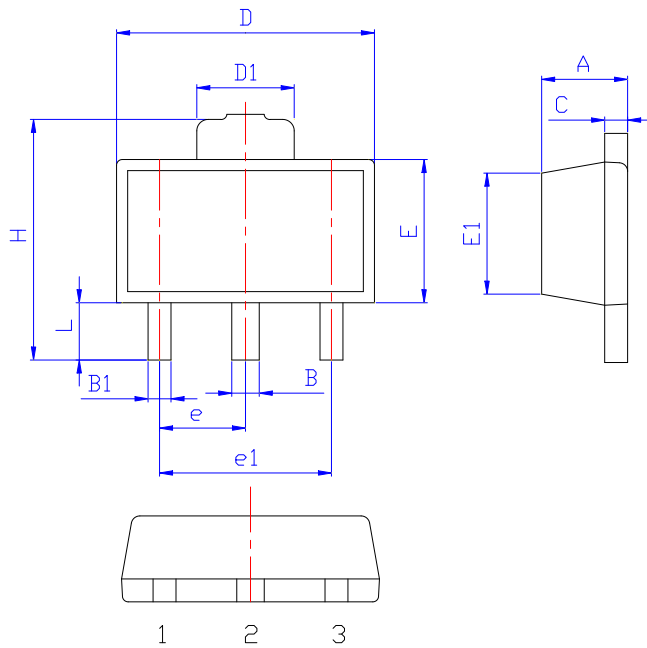
Characteristic	Symbol	Rating	Unit
Collector-Emitter Voltage	V_{CEO}	30	Vdc
Collector-Base Voltage	V_{CBO}	40	Vdc
Emitter-Base Voltage	V_{EBO}	5	Vdc
Collector Current(DC)	I_C	3	Adc
Collector Power Dissipation	P_C	500	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

ELECTRICAL CHARACTERISTICS($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB}=30\text{V}, I_E=0$	—	—	1000	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=3\text{V}, I_C=0$	—	—	1000	nA
DC Current Gain	h_{FE}	$V_{CE}=2\text{V}, I_C=20\text{mA}$	30	—	—	—
		$V_{CE}=2\text{V}, I_C=1\text{A}$	60	150	400	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2\text{A}, I_B=200\text{mA}$	—	0.3	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=2\text{A}, I_B=200\text{mA}$	—	1	1.5	V
Transition Frequency	f_T	$V_{CE}=5\text{V}, I_E=0.1\text{A},$	—	140	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0,$ $f=1\text{MHz}$	—	45	—	pF



SOT-89 PACKAGE OUTLINE DIMENSIONS



DIM	MILLIMETERS	
	MIN.	MAX.
A	1.40	1.60
B	0.46	0.56
B1	0.36	0.48
C	0.35	0.44
D	4.40	4.60
D1	1.62	1.83
E	2.29	2.60
E1	---	---
e	1.50REF	
e1	3.00REF	
H	3.94	4.25
L	0.89	1.20

SOT-89(TO-243)