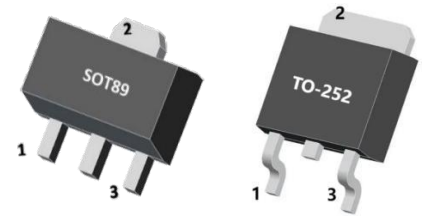


TRANSISTOR (PNP)

Parameter	Value	Unit
V_{CEO}	-30	V
I_C	-3	A

1. BASE
2. COLLECTOR
3. EMITTER



Features

- Complementary to NPN Transistor D882
- High current output up to 3A
- Low saturation voltage

Applications

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

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

Symbol	Parameter		Value	Unit
V_{CBO}	Collector-Base Voltage		-40	V
V_{CEO}	Collector-Emitter Voltage		-30	V
V_{EBO}	Emitter-Base Voltage	TO-252	-7	V
		SOT-89	-5	
I_C	Collector Current (DC)		-3	A
I_{CP}	Collector Current (Pulse)		-7	A
I_B	Base Current		-0.6	A
P_C	Collector Dissipation	TO-252	1	W
		SOT-89	0.5	
T_J	Operating Junction Temperature		+150	°C
T_{STG}	Storage Temperature		-55 to +150	°C

Note:

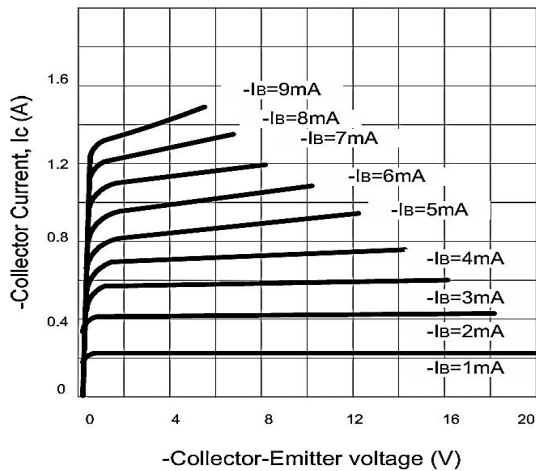
Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

Electrical Characteristics(Ta=25℃ unless otherwise noted)

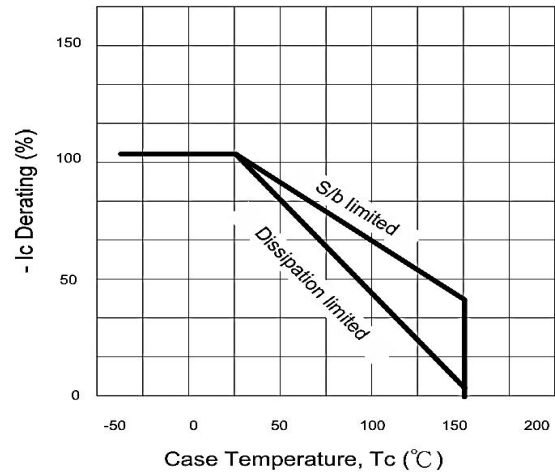
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	V _{CB0}	I _C =-100μA, I _E =0	-40			V
Collector-Emitter Breakdown Voltage	V _{CE0}	I _C =-1mA, I _B =0	-30			V
Emitter-Base Breakdown Voltage	V _{EB0}	I _E =-100μA, I _C =0	TO-252	-7		V
			SOT-89	-5		
Collector Cut-Off Current	I _{CBO}	V _{CB} =-30V, I _E =0			-1	μA
Collector Cut-Off Current	I _{CEO}	V _{CE} =-30V, I _B =0			-1	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =-5V, I _C =0			-1	μA
DC Current Gain (Note) (CLASSIFICATION OF hFE2)	hFE1	V _{CE} =-2V, I _C =-20mA	30	200		
	hFE2	V _{CE} =-2V, I _C =-1A	A	100	200	
			B	160	320	
			C	200	400	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-2A, I _B =-0.2A		-0.3	-0.5	V
Base-Emitter Saturation Voltage	V _{BE(SAT)}	I _C =-2A, I _B =-0.2A		-1.0	-2.0	V
Current Gain Bandwidth Product	f _T	V _{CE} =-5V, I _C =-0.1A		80		MHz
Output Capacitance	C _{OB}	V _{CB} =-10V, I _E =0, f=1MHz		45		pF

Typical Characteristics

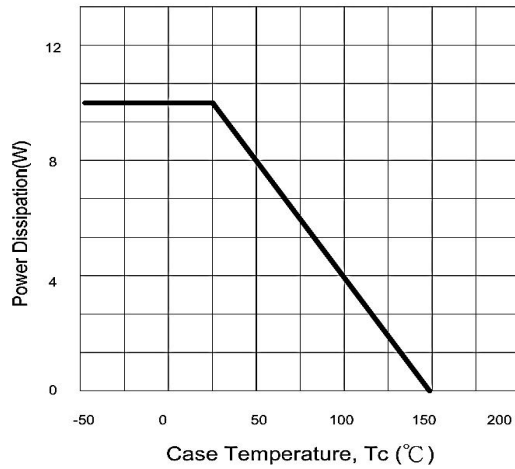
Static Characteristics



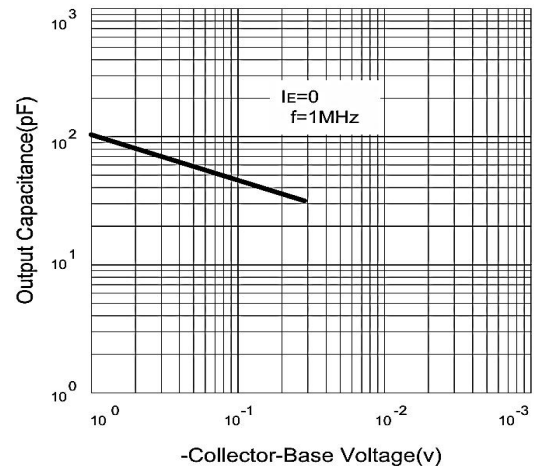
Derating Curve of Safe Operating Areas



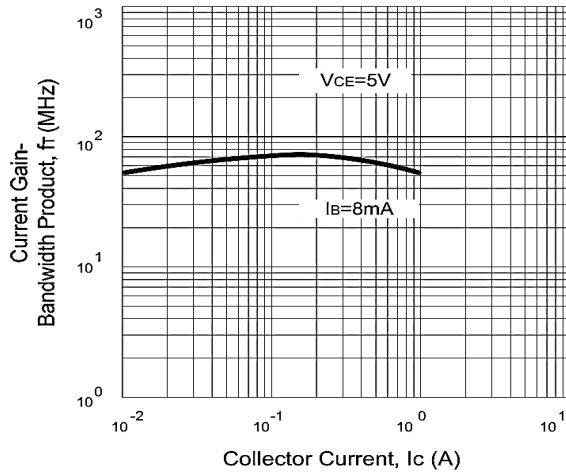
Power Derating



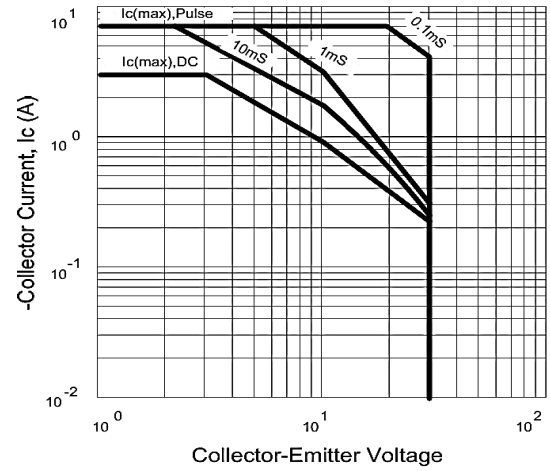
Collector Output Capacitance



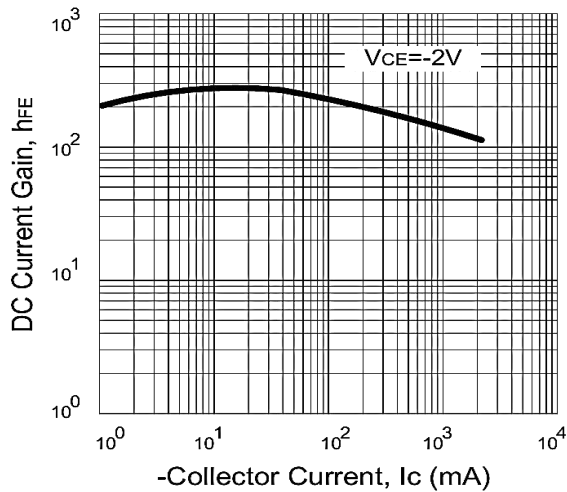
Current Gain-Bandwidth Product



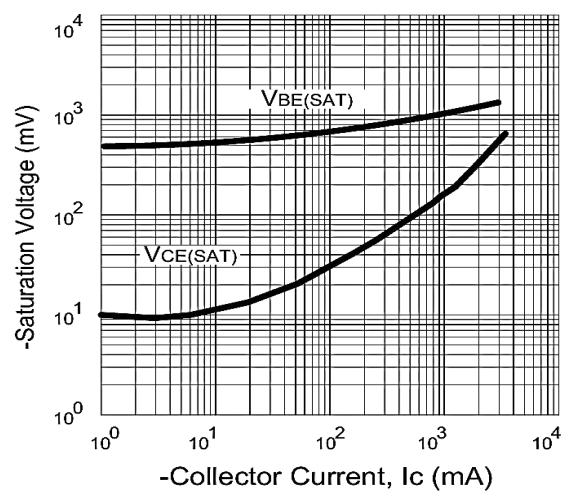
Safe Operating Area



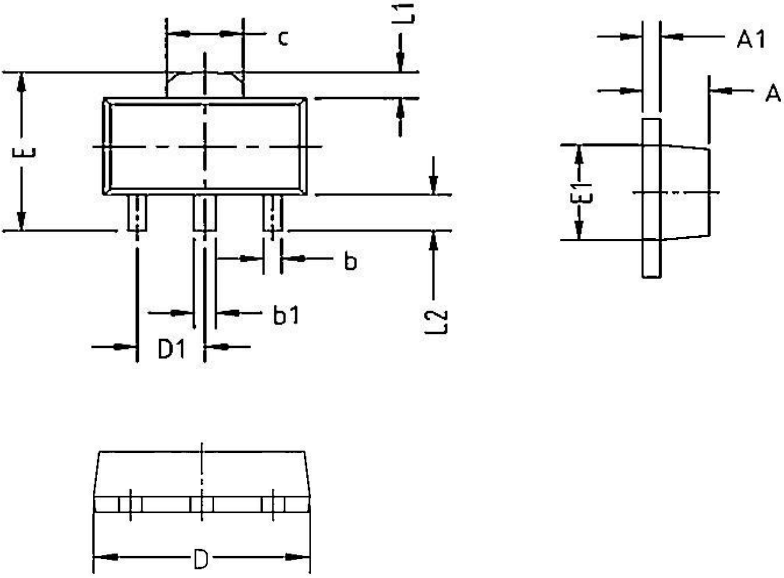
DC Current Gain



Saturation Voltage

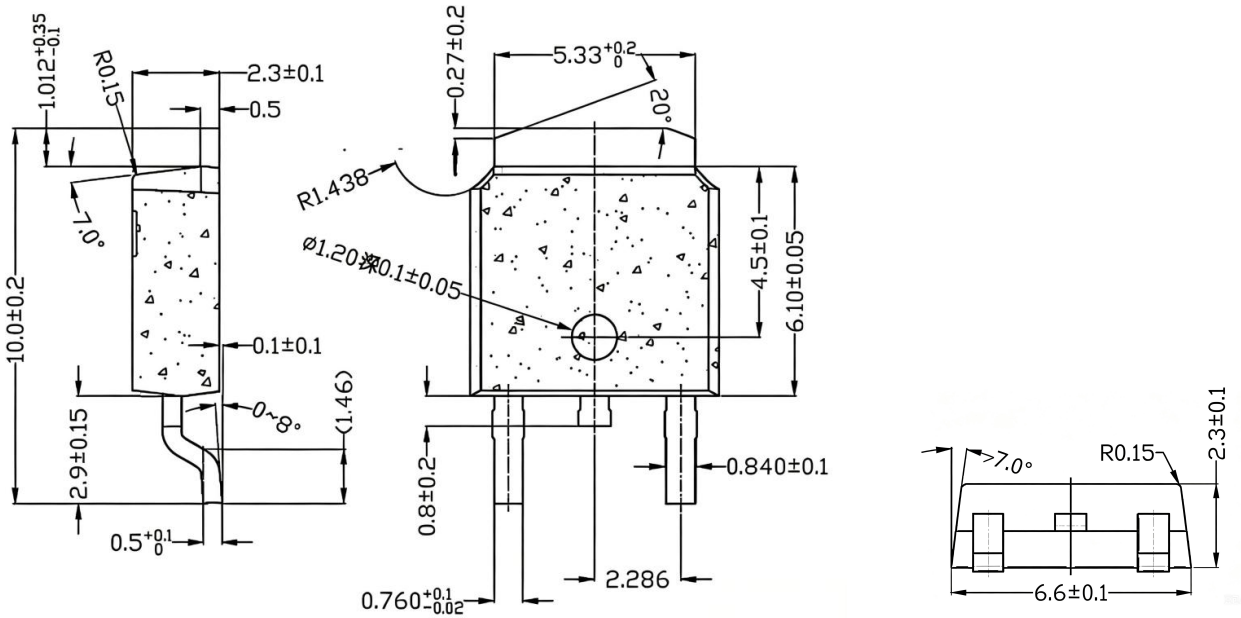


Package Outline Dimensions
SOT-89



COMMON DIMENSION(MM)			
PKG	SOT-89		
Symbol	MIN	MON	MAX
A	1.450	1.500	1.550
A1	0.350	0.400	0.450
b	0.350	0.400	0.48
b1	0.430	0.480	0.550
C	1.500	1.550	1.650
D	4.450	4.550	4.700
D1	1.470	1.500	1.550
E	4.100	4.200	4.300
E1	2.500	2.550	2.650
L1	0.650	0.700	0.750
L2	0.900	0.950	1.000

TO-252



***Important Usage Information and Disclaimer**

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