加急出货

2SD2133

Silicon NPN Epitaxial Planar Type

AF Power Amplifier, Driver Complementary Pair with 2SB1413

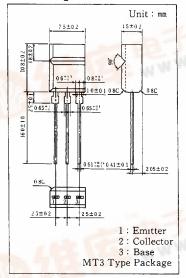
■ Features

- Low collector-emitter saturation voltage (V_{CE(sat)})
- 15W output in complementary pair with 2SB1413

■ Absolute Maximum Ratings (Ta=25°C)

Symbol	Value	Unit
V _{CBO}	60	V
V _{CEO}	50	V
V_{EBO}	5	V
I_{CP}	1.5	A
I _C	1	A
P _C	1.5	W
T,	150	°C
T_{stg}	-55~+150	°C
	VCBO VCEO VEBO ICP IC PC T ₁	VCBO 60 VCEO 50 VEBO 5 ICP 1.5 IC 1 PC 1.5 T ₁ 150

■ Package Dimensions



■ Electrical Characteristics (Tc=25°C)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 20V, I_E = 0$			0.1	μA
Collector-base voltage	V _{CBO}	$I_C = 10 \mu A, I_E = 0$	60			V
Collector-emitter voltage V_{CEO} $I_C = 2mA$, $I_B = 0$		50			v	
Emitter-base voltage	V _{EBO}	$I_E = 10 \mu A, I_C = 0$	5			V
DC current gain	h _{FE1} *1	$V_{CE} = 10V, I_C = 500 \text{mA}^{*2}$	85	160	340	
	h_{FE2}	$V_{CE} = 5V, I_B = 1A^{*2}$	50	100		
Collector-emitter saturation voltage	V _{CE (sat)}	$I_C = 500 \text{mA}, I_B = 50 \text{mA}^{*2}$		0.2	0.4	v
Base-emitter saturation voltage	V _{BE (sat)}	I _C =500mA, I _B =50mA* ²		0.85	1.2	V
Transition frequency	ition frequency f_T $V_{CB} = 10V$, $I_E = -50 \text{mA}$, $f = 200 \text{MHz}$			200		MHz
Collector output capacitance	acitance C_{ob} $V_{CB} = 10V$, $I_E = 0$, $f = 1MH_2$			11		рF

^{*2} Pulse measurement

*1h_{FE1} Classifications

Class	Q	R	S
h _{FE1}	85~170	120~240	170~340



6932852 0016951 978 I

