Unit in mm

Transistor

Silicon NPN Epitaxial Planar Type

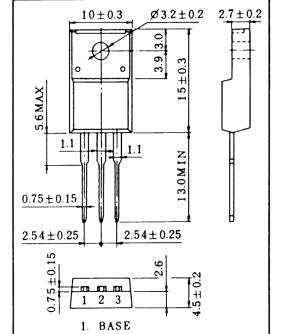
Power Amplifier, Driver Stage Applications

Features

High Transistion: f_T = 100MHz
Complementary to 2SA1837

Absolute Maximum Ratings (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V _{CBO}	230	V	
Collector-Emitter Voltage		V _{CEO}	230	V	
Collector-Base Voltage		V _{EBO}	5	V	
Collector Current		I _C	1	mA	
Base Current		I _B	0.1	mA	
Collector Power Dissipation	Ta = 25°C	P _C	2.0	mW	
	Tc = 25°C		20		
Junction Temperature		T _j	150	°C	
Storage Temperature Range		T _{stg}	-55 ~ 125	°C	



2. COLLECTOR3. EMITTER

2-10R1A

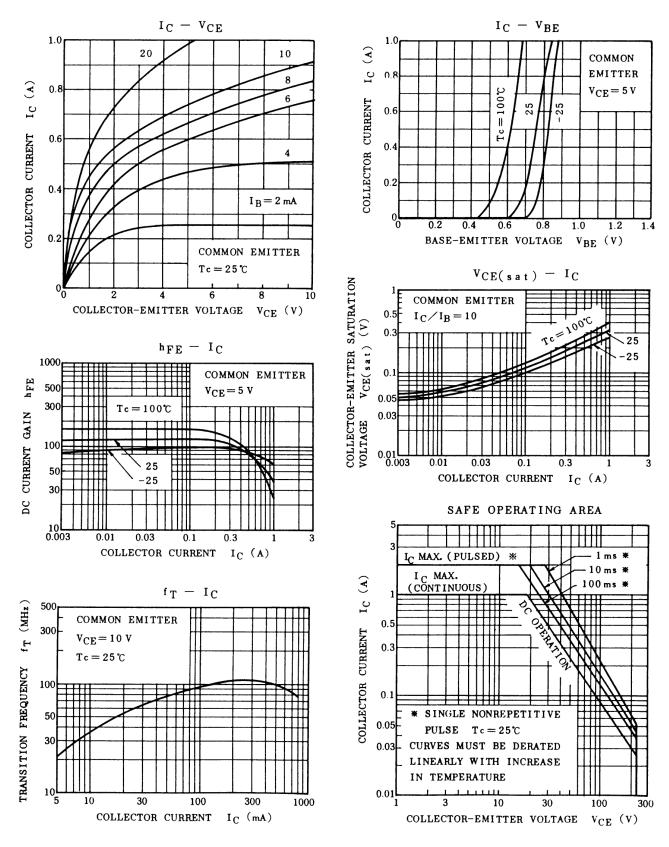
Weight: 1.7g

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Electrical Characteristics (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	$V_{CB} = 230V, I_E = 0$	-	-	1.0	μΑ
Emitter Cut-off Current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$	_	-	1.0	μΑ
Collector-Emmitter Breakdown Voltage	V _{(BR) CEO}	$I_C = 10 \text{mA}, I_B = 0$	230	-	-	V
DC Current Gain	h _{FE}	$V_{CE} = 5V, I_{C} = 100mA$	100	-	320	
Collector-Emmitter Saturation Voltage	V _{CE(sat)}	$I_C = 500 \text{mA}, I_B = 50 \text{mA}$	-	-	1.5	V
Base-Emitter Voltage	V _{BE}	$V_{CE} = 5V, I_{C} = 500mA,$ f = 1MHz	-	-	1.0	pF
Transistion Frequency	f _T	V _{CE} = 10V, I _C = 100mA	_	100	-	MHz
Collector Output Capacitance	C _{ob}	$V_{CB} = 10V, I_{C} = 0, f = 1MHz$	-	20	-	pF

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