

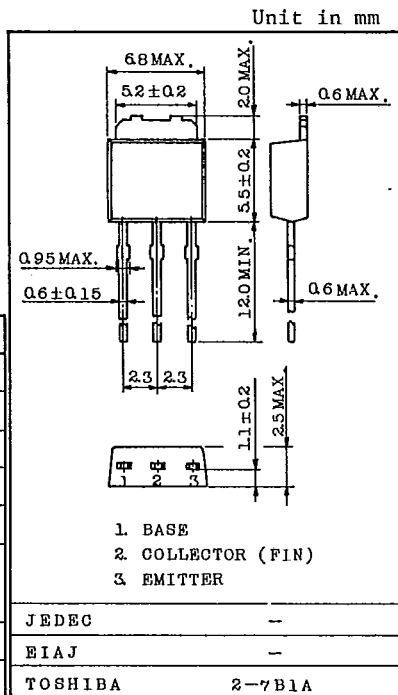
POWER AMPLIFIER APPLICATIONS.
 CAR RADIO, CAR STEREO OUTPUT STAGE AMPLIFIER
 APPLICATIONS.

FEATURES:

- . Good Linearity of h_{FE}
- . Complementary to 2SA1243

MAXIMUM RATINGS ($T_a=25^{\circ}C$)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CB0}	30	V
Collector-Emitter Voltage		V_{CEO}	30	V
Emitter-Base Voltage		V_{EB0}	5	V
Collector Current		I_C	3	A
Base Current		I_B	0.6	A
Collector Power Dissipation	$T_a=25^{\circ}C$	P_C	1.0	W
	$T_c=25^{\circ}C$		10	
Junction Temperature		T_j	150	$^{\circ}C$
Storage Temperature Range		T_{stg}	-55 ~ 150	$^{\circ}C$



Weight : 0.36g

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=20V, I_E=0$	-	-	1.0	μA
Emitter Cut-off Current	I_{EB0}	$V_{EB}=5V, I_C=0$	-	-	1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	30	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	5	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=2V, I_C=0.5A$	70	-	240	
	$h_{FE(2)}$	$V_{CE}=2V, I_C=2.5A$	25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2A, I_B=0.2A$	-	0.3	0.8	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=2V, I_C=0.5A$	-	0.75	1.0	V
Transition Frequency	f_T	$V_{CE}=2V, I_C=0.5A$	-	100	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	35	-	pF

Note: $h_{FE(1)}$ Classification O : 70 ~ 140, Y : 120 ~ 240

