

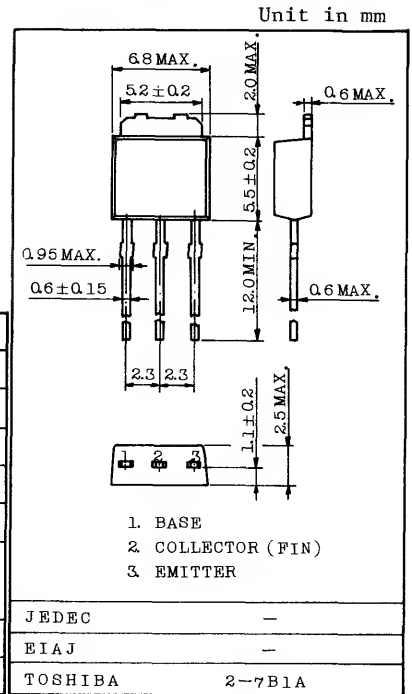
POWER AMPLIFIER APPLICATIONS.
 CAR RADIO AND CAR STEREO OUTPUT STAGE APPLICATIONS.

FEATURES:

- . Good Linearity of h_{FE}
- . Complementary to 2SC3073

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

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-30	V
Collector-Emitter Voltage		V_{CEO}	-30	V
Emitter-Base Voltage		V_{EBO}	-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_{CBO}	$V_{CB}=-20V, I_E=0$	-	-	-1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-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}	$V_{CB}=-10V, I_E=0, f=1MHz$	-	40	-	pF

Note: $h_{FE(1)}$ Classification 0 : 70~140, Y : 120~240

2SA1243

