2SC3297

SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

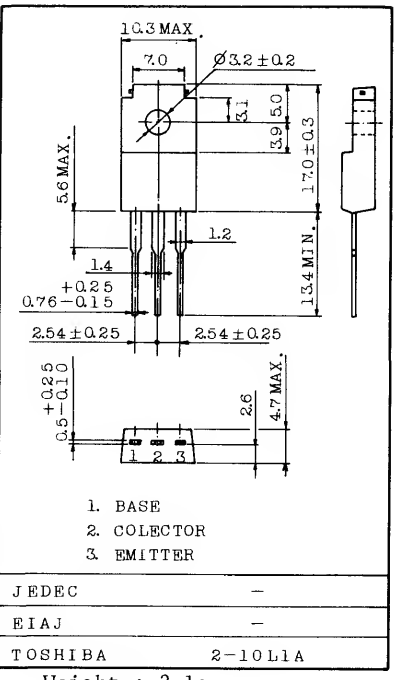
POWER AMPLIFIER APPLICATIONS.
CAR RADIO, CAR STEREO OUTPUT STAGE AMPLIFIER APPLICATIONS.

FEATURES:

. Good Linearity of f_{FE}

. Complementary to 2SA1305 and 5W Output Applications.

Unit in mm



JEDEC	—
EIAJ	—
TOSHIBA	2-10L1A

Weight : 2.1g

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

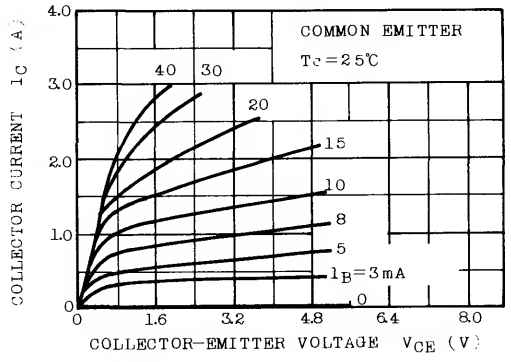
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	3	A
Base Current	I_B	0.3	A
Collector Power Dissipation ($Tc=25^{\circ}C$)	P_C	15	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^{\circ}C$

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

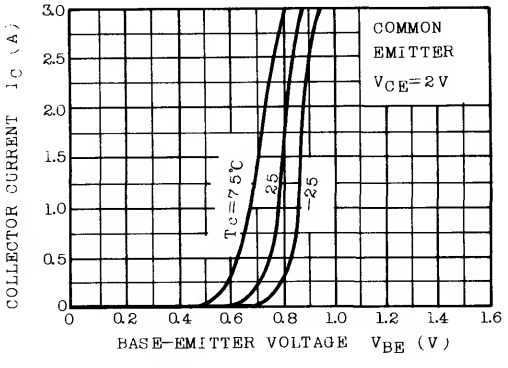
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=20V$, $I_E=0$	-	-	1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V$, $I_C=0$	-	-	1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA$, $I_B=0$	30	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=2V$, $I_C=0.5A$	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

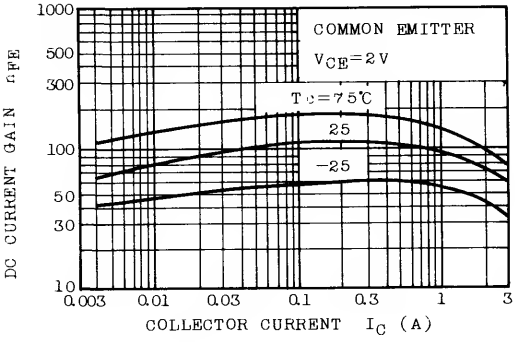
$I_C - V_{CE}$



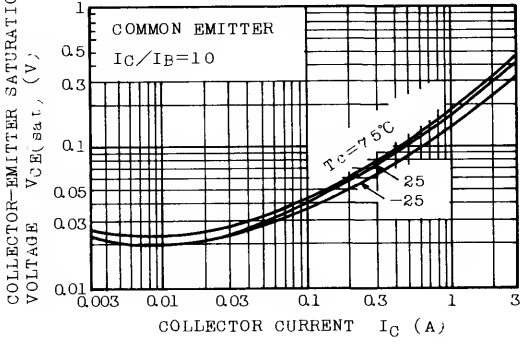
$I_C - V_{BE}$



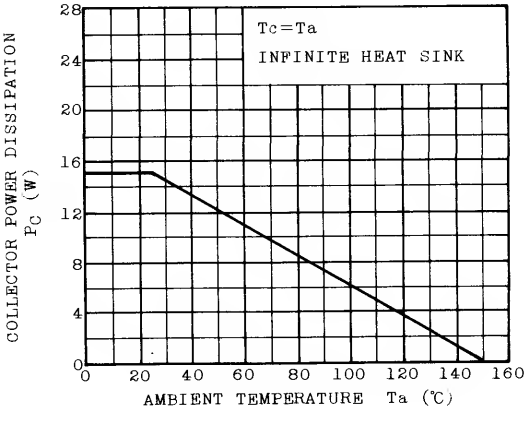
$h_{FE} - I_C$



$V_{CE(sat)} - I_C$



$P_C - Ta$



SAFE OPERATING AREA