

2SC2877

SILICON NPN EPITAXIAL PLANAR TYPE (PCT PROCESS)

AUDIO FREQUENCY POWER AMPLIFIER

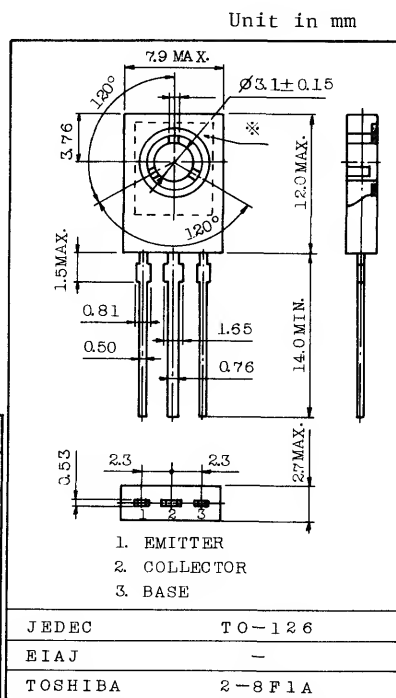
LOW SPEED SWITCHING

FEATURES:

- Suitable for output stage of 5 watts car radio and car stereo.
- Good linearity of h_{FE} .
- Complementary to 2SA1217.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	40	V
Collector-Emitter Voltage	V_{CE0}	40	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	3	A
Base Current	I_B	1	A
Collector Power Dissipation ($T_c=25^{\circ}\text{C}$)	P_C	10	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim 150$	$^{\circ}\text{C}$



The inside metal of dotted line is connected to collector lead. Weight 0.72 g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cutoff Current	I_{CB0}	$V_{CB}=40\text{V}$, $I_E=0$	-	-	100	nA
Emitter Cutoff Current	I_{EB0}	$V_{EB}=5\text{V}$, $I_C=0$	-	-	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=10\text{mA}$, $I_B=0$	40	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE}=2\text{V}$, $I_C=0.5\text{A}$	80	-	240	
	$h_{FE(2)}$	$V_{CE}=2\text{V}$, $I_C=2.5\text{A}$	25	-	-	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2\text{A}$, $I_B=0.2\text{A}$	-	-	0.8	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=2\text{V}$, $I_C=0.5\text{A}$	-	-	1.0	V
Transition Frequency	f_T	$V_{CE}=2\text{V}$, $I_C=0.5\text{A}$	-	100	-	MHz
Output Capacitance	C_{ob}	$V_{CB}=10\text{V}$, $I_E=0$, $f=1\text{MHz}$	-	35	-	pF

Note: h_{FE} Classification O : 80~160 Y : 120~240

TOSHIBA CORPORATION

