

SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

S1808

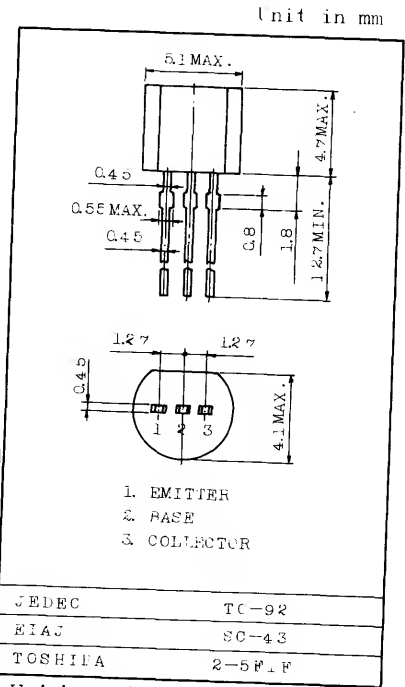
PRIMARYLY INTENDED FOR USE IN DRIVER AND
OUTPUT STAGE OF AUDIO AMPLIFIERS.
DESIGNED FOR COMPLEMENTARY USE WITH S1807.

FEATURES:

- Low Saturation Voltage : $V_{CE(sat)} = -0.7V$ (Max.)
at $I_C = -500mA$
- Complementary to S1807

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-35	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-800	mA
Base Current	I_B	-200	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55-150	°C



Weight : 0.21g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -20V, I_E = 0$	-	-	-100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$	-	-	-100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-30	-	-	V
DC Current Gain (1)	$h_{FE(1)}$	$V_{CE} = -1V, I_C = -100mA$	100	-	320	
DC Current Gain (2)	$h_{FE(2)}$	$V_{CE} = -1V, I_C = -700mA$	35	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -20mA$	-	-	-0.7	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -1V, I_C = -10mA$	-0.5	-	-0.8	V
Transition Frequency	f_T	$V_{CE} = -5V, I_C = -10mA$	-	120	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	19	-	pF

