

HH38WXST Tx DRIVER

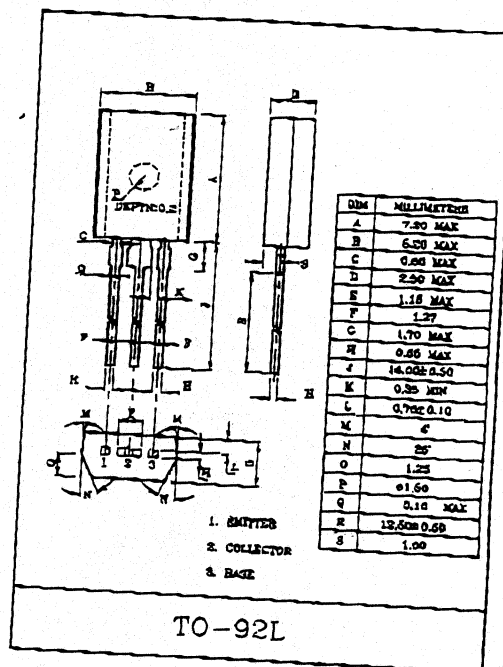
CB TRANSCEIVER TX DRIVER APPLICATION.

FEATURES

- Recommended for Driver Stage Application of AM 4W Transmitter.
- High Power Gain.
- Wide Area of Safe Operation.

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	80	V
Collector-Emitter Voltage	V_{CE0}	80	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_{C0}	800	mA
Emitter Current	I_E	-800	mA
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C


ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=60V, I_E=0$	-	-	0.1	μA
Collector Cut-off Current	I_{CER}	$V_{CE}=80V, R_{BE}=220\Omega$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=2V, I_C=150mA$	100	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=20mA$	-	-	0.7	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=2V, I_C=500mA$	-	0.9	-	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=100mA$	-	150	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_B=0, f=1MHz$	-	12	-	pF

