

S1377

SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

MEDIUM POWER AMPLIFIER APPLICATIONS.
TV HORIZONTAL DRIVER APPLICATIONS.

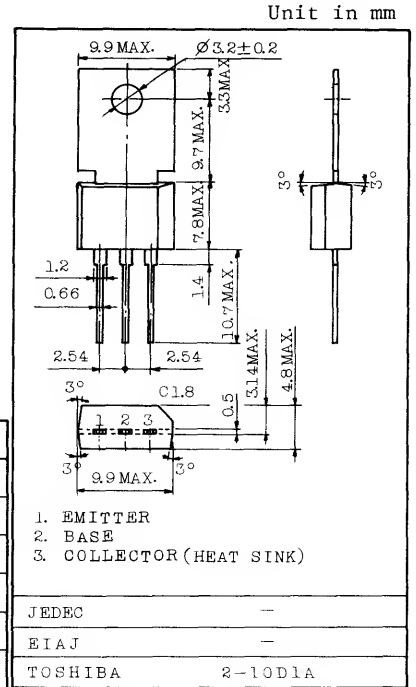
FEATURES:

- High Collector to Emitter Breakdown Voltage

$$V_{CEO}=250V$$

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	250	V
Collector-Emitter Voltage	V_{CEO}	250	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	500	mA
Base Current	I_B	250	mA
Collector Power Dissipation	P_C	Ta=25°C	1.5
		Tc=25°C	6.25
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C



Weight : 1.4g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=250V, I_E=0$	-	-	10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=6V, I_C=0$	-	-	10	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=5mA, I_B=0$	250	-	-	V
DC Current Gain	h_{FE}	$V_{CE}=10V, I_C=100mA$	30	-	200	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=200mA, I_B=20mA$	-	-	3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=200mA, I_B=20mA$	-	-	1.2	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=100mA$	40	60	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=20V, I_E=0, f=1MHz$	-	-	7	pF

