

SILICON NPN TRANSISTOR TRIPLE DIFFUSED TYPE (PCT PROCESS)

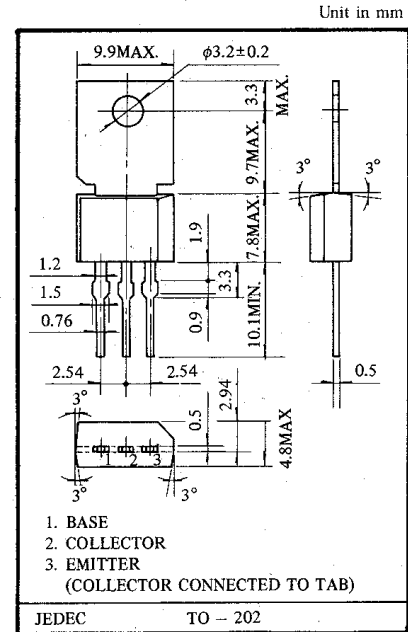
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APPLICATION

■ Color TV Chroma Output.

FEATURES

- High Voltage : $V_{CE0} = 300V$
- Small Collector Output Capacitance : $C_{ob} = 4.0pF$ (Max.)



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

CHARACTERISTIC	SYMBOL	RATING	UNIT	CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector - Base Voltage	V_{CBO}	300	V	Base Current	I_B	20	mA
Collector - Emitter Voltage	V_{CEO}	300	V	Collector Power Dissipation	P_C	1.5	W
Emitter-Base Voltage	V_{EBO}	5	V	Junction Temperature	T_j	150	$^\circ C$
Collector Current	I_C	50	mA	Storage Temperature Range	T_{stg}	-55~150	$^\circ C$

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = 240V, I_E = 0$	-	-	1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$	-	-	1.0	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 10V, I_C = 0.5mA$	20	-	-	
	$h_{FE(2)}$	$V_{CE} = 10V, I_C = 20mA$	30	-	200	
Collector - Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 10mA, I_B = 1mA$	-	-	1.0	V
Transition Frequency	f_T	$V_{CE} = 20V, I_C = 20mA$	75	95	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 20V, I_E = 0, f = 1MHz$	-	-	4.0	pF