

2SD1090

SILICON NPN TRIPLE DIFFUSED TYPE

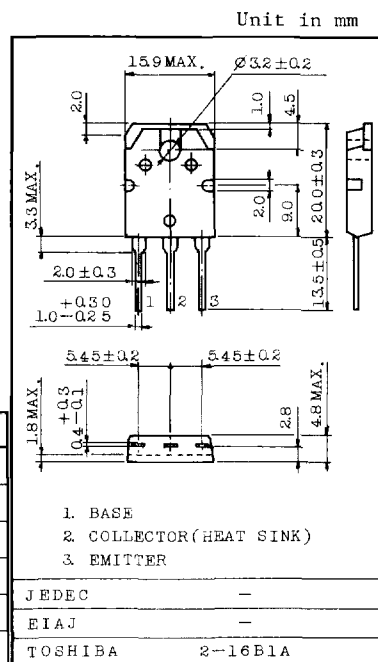
COLOR TV POWER REGULATOR APPLICATIONS.

FEATURES:

- . High Voltage : $V_{CE0}=180V$
- . High DC Current Gain : $h_{FE}=500(\text{Min.})$
- . Large Collector Power Dissipation Capability : $P_C=80W$

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	200	V
Collector-Emitter Voltage	V_{CE0}	180	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	5	A
Base Current	I_B	2	A
Collector Power Dissipation ($T_c=25^{\circ}C$)	P_C	80	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^{\circ}C$



Weight : 4.6g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=200V, I_E=0$	—	—	100	μA
	I_{CE0}	$V_{CE}=180V, I_B=0$	—	—	10	mA
Emitter Cut-off Current	I_{EB0}	$V_{EB}=5V, I_C=0$	—	—	100	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=50mA, I_B=0$	180	—	—	V
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=1A$	500	—	2000	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=1A, I_B=20mA$	—	—	1.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=5V, I_C=1A$	0.60	0.70	0.80	V

