

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

2SD1294

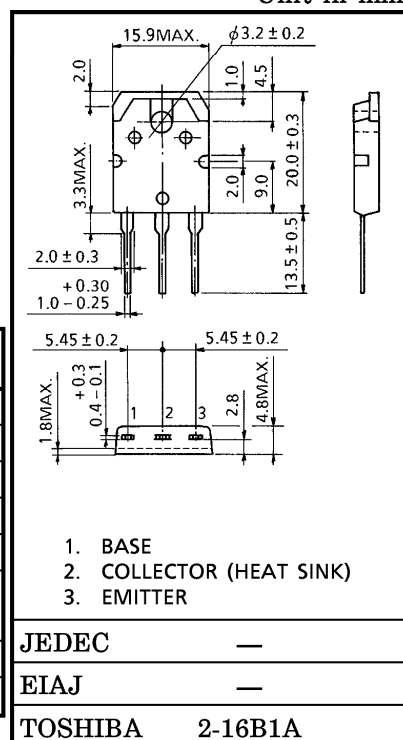
POWER REGULATOR FOR LINE OPERATED TV

Unit in mm

- Excellent Wide Safe Operating Area (80 W·s at $T_c = 25^\circ\text{C}$)
- Included Avalanche Diode : $V_Z = 60 \pm 15 \text{ V}$
- High DC Current Gain : $h_{FE} = 2000 \sim 20000$
- Darlington Connected Type.

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

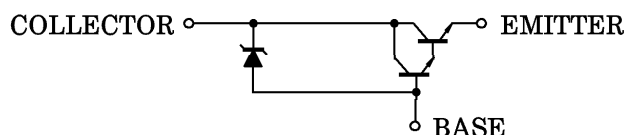
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	60 ± 15	V
Collector-Emitter Voltage		V_{CEO}	60 ± 15	V
Emitter-Base Voltage		V_{EBO}	6	V
Collector Current	DC	I_C	5	A
	Pulse	I_{CP}	20	A
Collector Power Dissipation ($T_c = 25^\circ\text{C}$)		P_C	80	W
Junction Temperature		T_j	150	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	$-55 \sim 150$	$^\circ\text{C}$



Weight : 4.6 g

Mounting Kit No. AC73

EQUIVALENT CIRCUIT

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 100 \text{ mA}, I_E = 0$	45	60	75	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 100 \text{ mA}, I_B = 0$	45	60	75	V
Collector Cut-off Current	I_{EBO}	$V_{EB} = 6 \text{ V}, I_C = 0$	—	—	100	μA
DC Current Gain	h_{FE}	$V_{CE} = 5 \text{ V}, I_C = 500 \text{ mA}$	2000	—	20000	
Collector-Emitter Saturation Voltage	$V_{CE(sat)} (1)$	$I_C = 500 \text{ mA}, I_B = 1 \text{ mA}$	—	—	1.5	V
	$V_{CE(sat)} (2)$	$I_C = 1.0 \text{ A}, I_B = 1 \text{ mA}$	—	—	2.5	
Base-Emitter Voltage	V_{BE}	$V_{CE} = 5 \text{ V}, I_C = 500 \text{ mA}$	—	—	1.8	V
Allowable Energy	E_T	Application Circuit	80	—	—	W·s

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"Searchdatasheets provides users with one of the Internet's most complete sources for obsolete datasheets," said Ariel Zriel, President, Market Maker Systems.

As the life-cycle of components is shortened by the constant demand for faster and better technology, electronics parts are being rendered obsolete at an unprecedented rate. Searchdatasheets gathers and stores the fact sheets, which explain how to use those components.

"Once a component manufacturer decides to eliminate a component datasheet from its web site," said Zriel, "we take over and list it along with the millions of other datasheets that our users can quickly access."

Users can perform standard searches for datasheets, or use the cross-reference search option if they want to find a compatible part from another manufacturer.

Searchdatasheets also informs its users when parts are going to become obsolete, providing them with timely product change notification (PCN), product discontinuation notices (PDN) and end of life (EOL) notification.

Searchdatasheets is the only database of its kind that has components engineers onstaff.

That means users can count on assistance from qualified personnel when performing cross-reference searches. Searchdatasheets engineers also regularly research and add and new datasheets to the system.

"We have full-time Engineers on-staff to research and add datasheets if the information is not currently on our site," said Zriel. "We are providing a place for users to have their questions answered quickly. Our aim is to build a community for components engineers who need help in product design."

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