

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

2SD1294

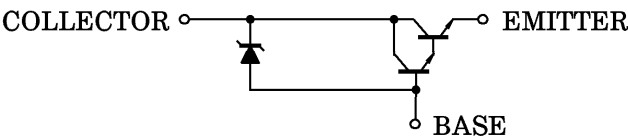
POWER REGULATOR FOR LINE OPERATED TV

- Excellent Wide Safe Operating Area (80 W·s at Tc = 25°C)
- Included Avalanche Diode : VZ = 60 ± 15 V
- High DC Current Gain : hFE = 2000~20000
- Darlington Connected Type.

MAXIMUM RATINGS (Ta = 25°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 (Tc = 25°C)		P _C	80	W
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	−55~150	°C

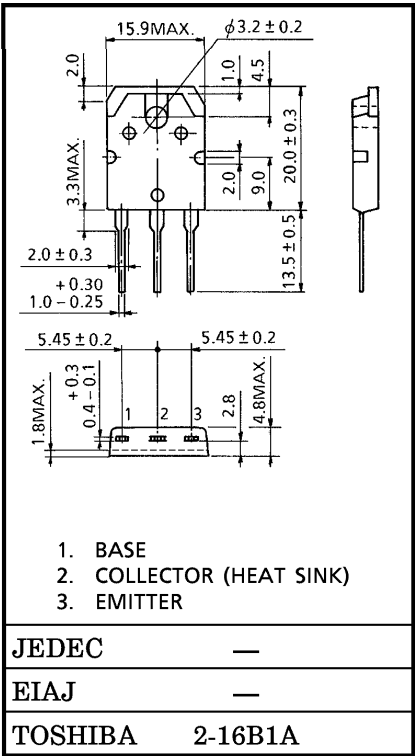
EQUIVALENT CIRCUIT



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

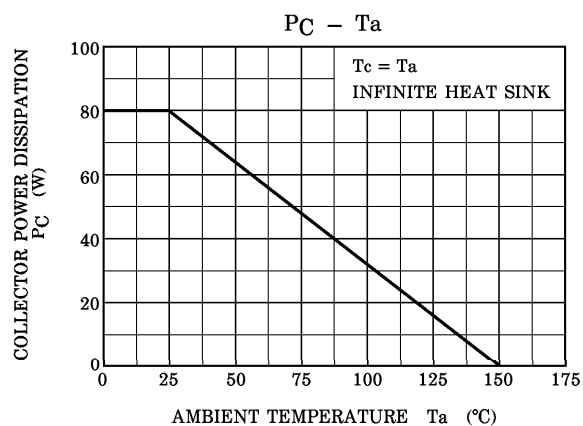
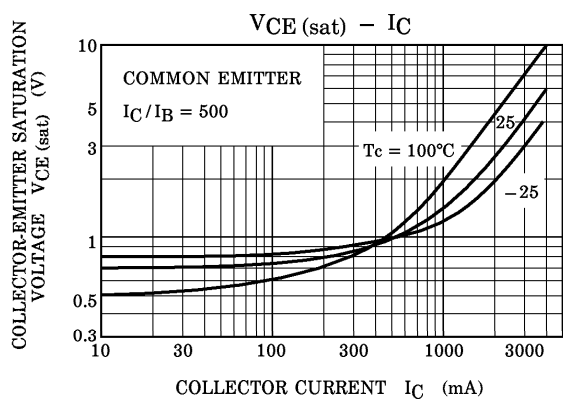
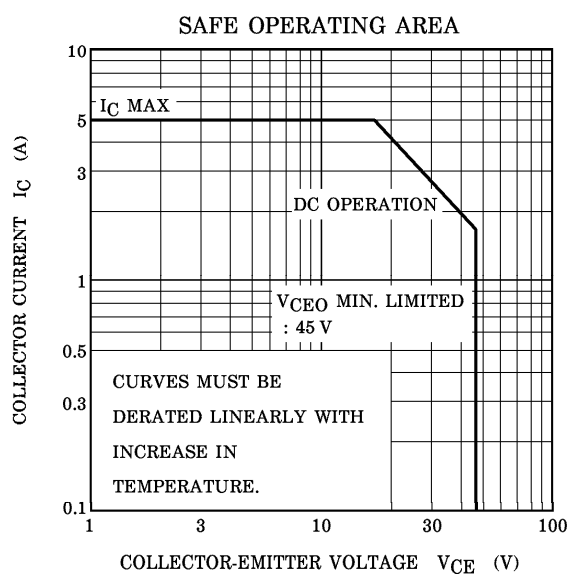
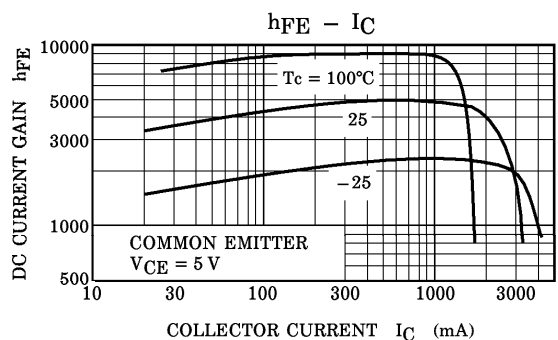
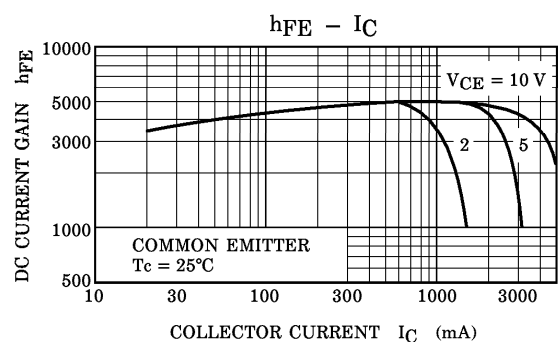
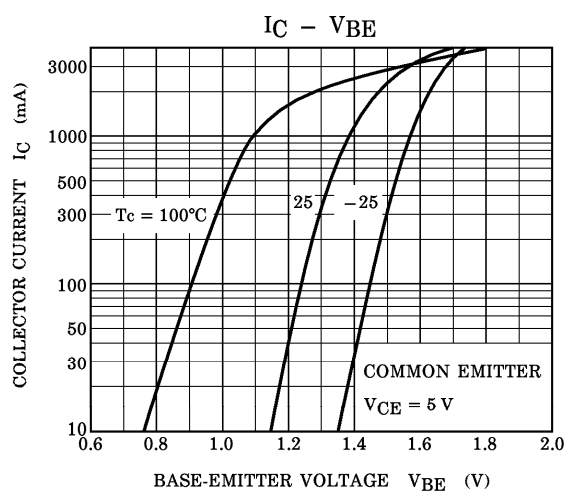
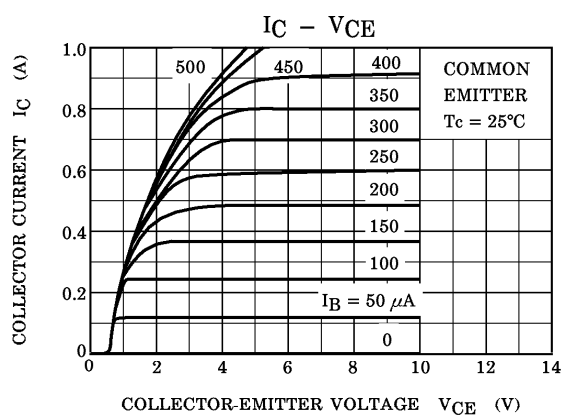
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Breakdown Voltage	V _(BR) CBO	I _C = 100 mA, I _E = 0	45	60	75	V
Collector-Emitter Breakdown Voltage	V _(BR) CEO	I _C = 100 mA, I _B = 0	45	60	75	V
Collector Cut-off Current	I _{EBO}	V _{EB} = 6 V, I _C = 0	—	—	100	μA
DC Current Gain	h _{FE}	V _{CE} = 5 V, I _C = 500 mA	2000	—	20000	
Collector-Emitter Saturation Voltage	V _{CE(sat)} (1)	I _C = 500 mA, I _B = 1 mA	—	—	1.5	V
	V _{CE(sat)} (2)	I _C = 1.0 A, I _B = 1 mA	—	—	2.5	
Base-Emitter Voltage	V _{BE}	V _{CE} = 5 V, I _C = 500 mA	—	—	1.8	V
Allowable Energy	E _T	Application Circuit	80	—	—	W·s

Unit in mm

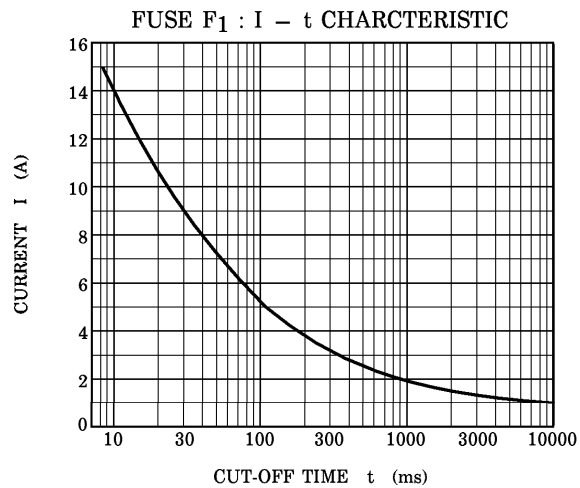
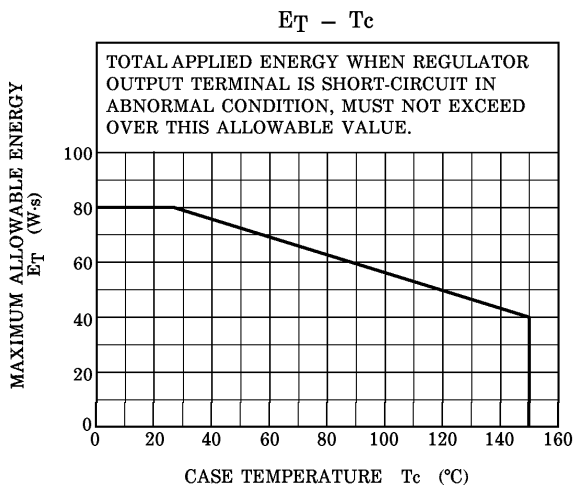
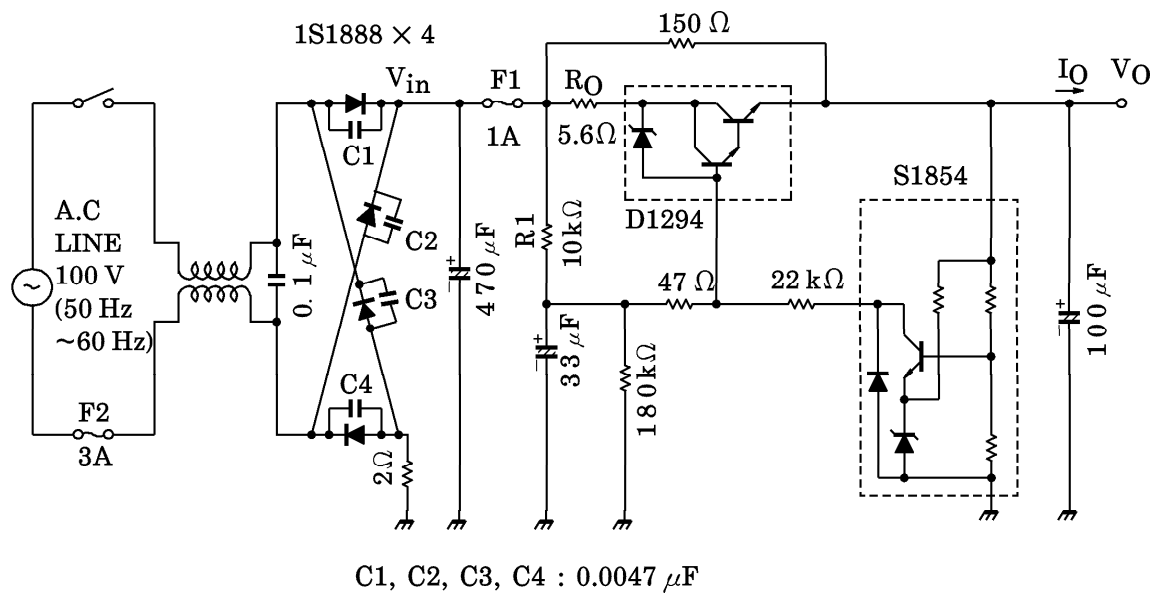


Weight : 4.6 g

Mounting Kit No. AC73



APPLICATION CIRCUIT



RESTRICTIONS ON PRODUCT USE

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