

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

2SC4690

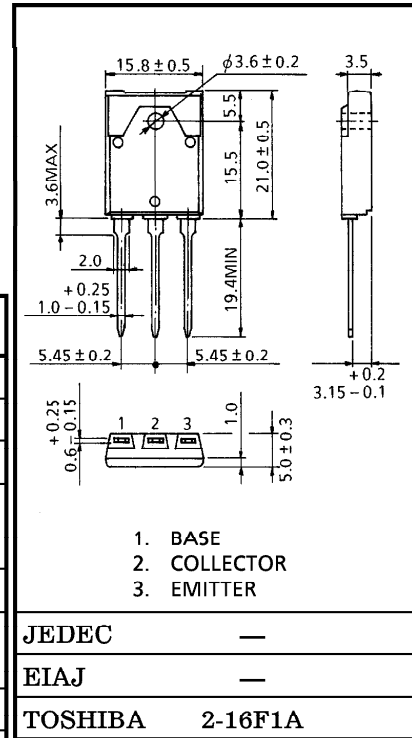
POWER AMPLIFIER APPLICATIONS

Unit in mm

- Complementary to 2SA1805
- Recommend for 70W High Fidelity Audio Frequency Amplifier output Stage.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V _{CB0}	140	V
Collector-Emitter Voltage		V _{CEO}	140	V
Emitter-Base Voltage		V _{EB0}	5	V
Collector Current	DC	I _C	10	A
	Pulse	I _{CP}	20	
Base Current		I _B	1	A
Collector Power Dissipation (T _c = 25°C)		P _C	80	W
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C



JEDEC	—
EIAJ	—
TOSHIBA	2-16F1A

Weight : 5.8g

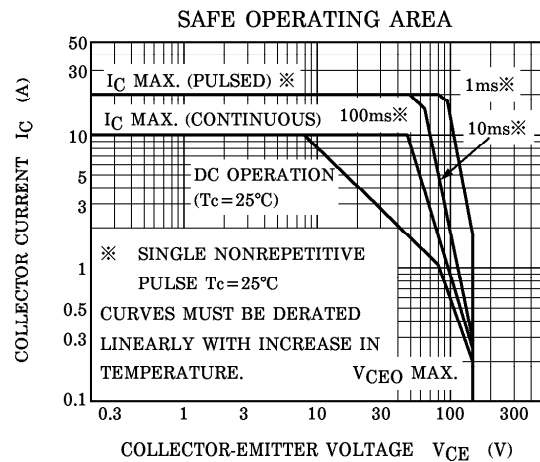
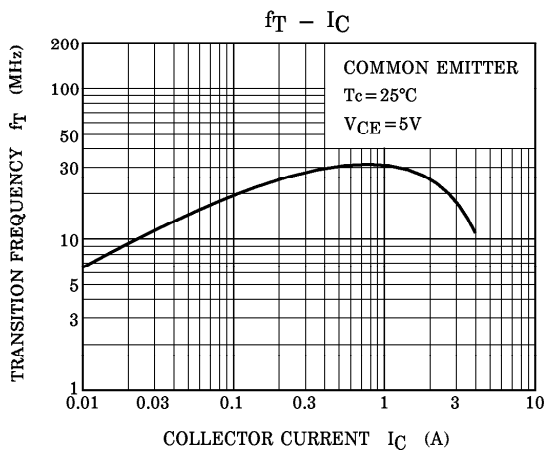
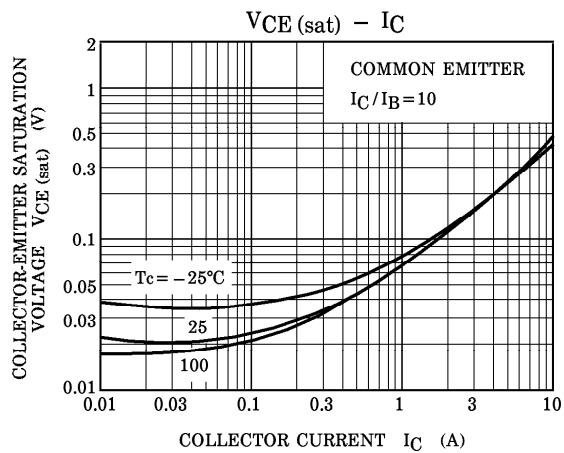
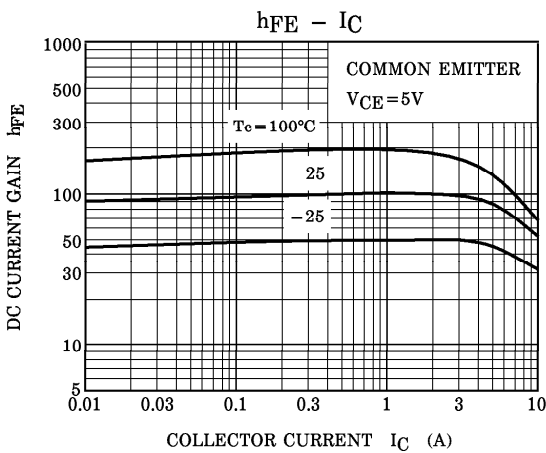
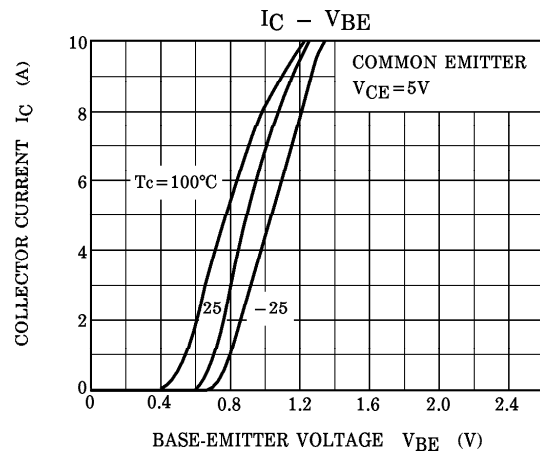
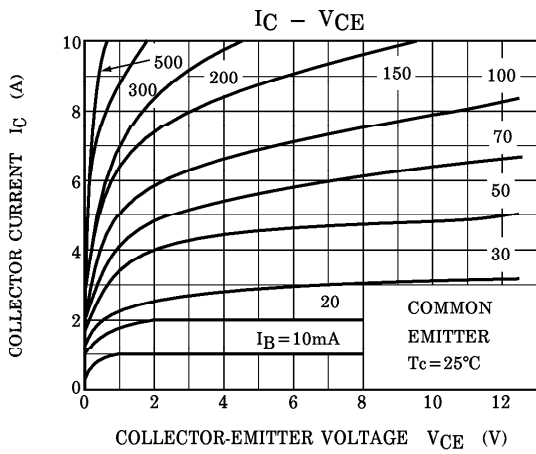
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} = 140V, I _E = 0	—	—	5.0	μA
Emitter Cut-off Current	I _{EB0}	V _{EB} = 5V, I _C = 0	—	—	5.0	μA
Collector-Emitter Breakdown Voltage	V _{(BR) CEO}	I _C = 50mA, I _B = 0	140	—	—	V
DC Current Gain	h _{FE} (1) (Note)	V _{CE} = 5V, I _C = 1A	55	—	160	
	h _{FE} (2)	V _{CE} = 5V, I _C = 5A	35	85	—	
Collector-Emitter Saturation Voltage	V _{CE (sat)}	I _C = 7A, I _B = 0.7A	—	0.3	2.0	V
Base-Emitter Voltage	V _{BE}	V _{CE} = 5V, I _C = 5A	—	0.9	1.5	V
Transition Frequency	f _T	V _{CE} = 5V, I _C = 1A	—	30	—	MHz
Collector Output Capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f = 1MHz	—	220	—	pF

Note : h_{FE} (1) Classification R : 55~110, O : 80~160

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