TOSHIBA Transistor Silicon NPN Triple Diffused Type

2SC4689

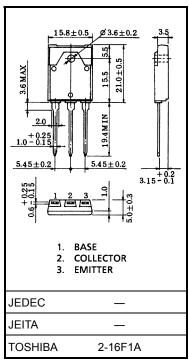
Power Amplifier Applications

Unit: mm

- Complementary to 2SA1804
- Suitable for use in 55-W high fidelity audio amplifier's output stage.

Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V_{CBO}	120	V	
Collector-emitter voltage		V _{CEO}	120	V	
Emitter-base voltage		V _{EBO}	5	V	
Collector current	DC	Ic	8	Α	
	Pulse	I _{CP}	16		
Base current		Ι _Β	0.8	Α	
Collector power dissipation		P _C	70	W	
(Tc = 25°C)		r.C	70	VV	
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	



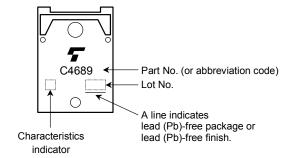
Weight: 5.8 g (typ.)

Electrical Characteristics (Tc = 25°C)

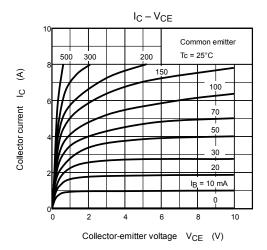
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 120 V, I _E = 0	_	_	5.0	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	5.0	μA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 50 mA, I _B = 0	120	_	_	٧
DC current gain	h _{FE (1)} (Note)	V _{CE} = 5 V, I _C = 1 A	55	_	160	
	h _{FE (2)}	V _{CE} = 5 V, I _C = 4 A	35	75	_	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 6 A, I _B = 0.6 A	_	0.35	2.0	V
Base-emitter voltage	V_{BE}	V _{CE} = 5 V, I _C = 4 A	_	0.95	1.5	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 1 A	_	30	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	190	_	pF

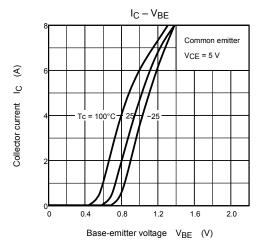
Note: hFE (1) classification R: 55 to 110, O: 80 to 160

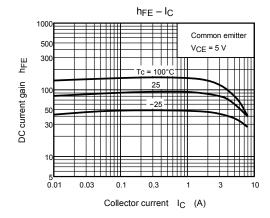
Marking

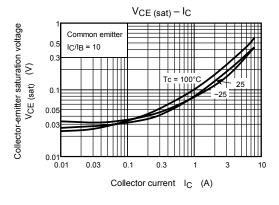


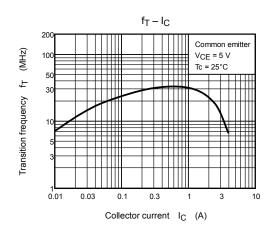
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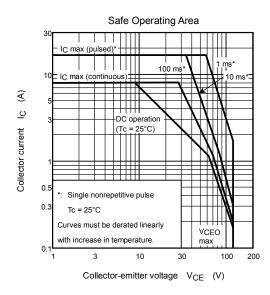












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