TOSHIBA Transistor Silicon NPN Triple Diffused Type (Darlington power transistor)

2SD2449

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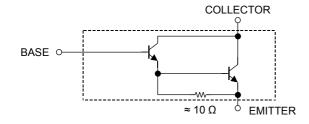
Power Amplifier Applications

- High breakdown voltage: VCEO = 160 V (min)
- Complementary to 2SB1594

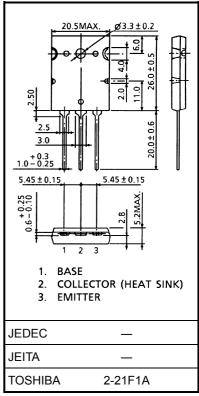
Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V_{CBO}	160	V	
Collector-emitter voltage	V _{CEO}	160	V	
Emitter-base voltage	V _{EBO}	5	V	
Collector current	Ic	10	Α	
Base current	Ι _Β	1	Α	
Collector power dissipation	Pc	150	W	
(Tc = 25°C)	<u> </u>			
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	-55 to 150	°C	

Equivalent Circuit



Unit: mm



Weight: 9.75 g (typ.)

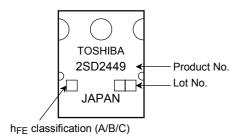


Electrical Characteristics (Ta = 25°C)

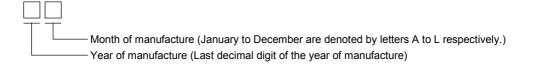
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 160 V, I _E = 0	_	_	5	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	5	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 50 mA, I _B = 0	160	_	_	V
DC current gain	h _{FE (1)} (Note)	V _{CE} = 5 V, I _C = 8 A	3000	_	20000	
	h _{FE (2)}	V _{CE} = 5 V, I _C = 12 A	2000	_	_	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 8 A, I _B = 8 mA	_	_	3.0	٧
Base-emitter voltage	V_{BE}	V _{CE} = 5 V, I _C = 8 A	_	_	3.0	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	_	150	_	pF

Note: $h_{FE\ (1)}$ classification A: 3000 to 10000, B: 5000 to 15000, C: 7000 to 20000

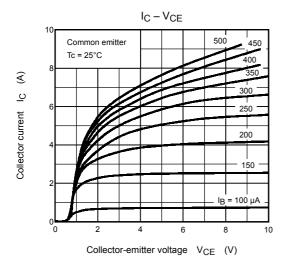
Marking

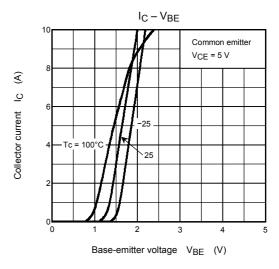


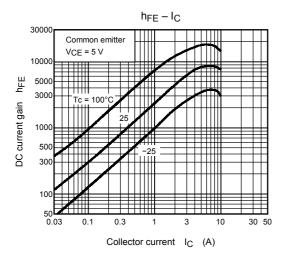
Explanation of Lot No.

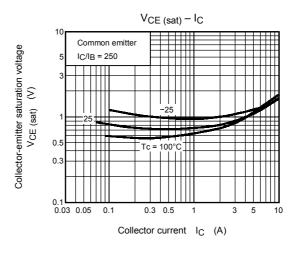


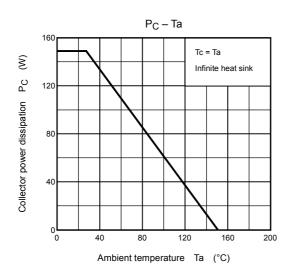
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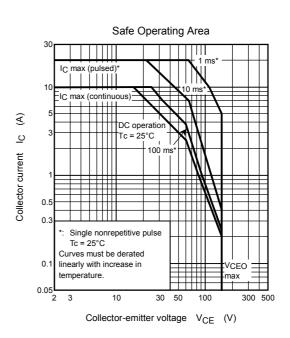












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