TOSHIBA Transistor Silicon PNP Epitaxial Type

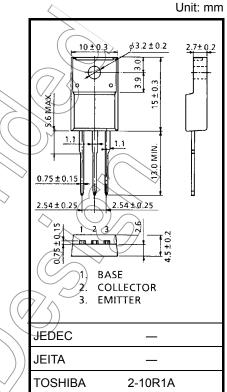
2SB1495

High-Power Switching Applications

- High DC current gain: $h_{FE} = 2000 \text{ (min)} (V_{CE} = -2 \text{ V}, I_C = -2 \text{ A})$
- Low saturation voltage: V_{CE} (sat) = -1.5 V (max) (I_C = -1.5 A)
- Complementary to 2SD2257

Absolute Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V _{CBO}	-100	$(\mathcal{N} \land)$	
Collector-emitter voltage		V _{CEO}	-100	$\langle \psi \rangle$	
Emitter-base voltage		V _{EBO}	-8	V	
Collector current	DC	Ι _C	-3		
	Pulsed	I _{CP}	-5	✓ A	
Base current		Ι _Β	-0.3	А	
Collector power dissipation	Ta = 25°C	Da (2.0	XV	
	Tc = 25°C	Pc <	20		
Junction temperature		Тј	150	ેંદ	
Storage temperature range		Istg	-55 to 150	°C	



Weight: 1.7 g (typ.)

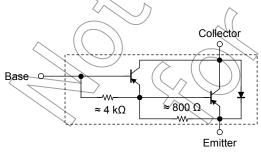
Note: Using continuously under heavy loads (e.g. the application of high

temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook

("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

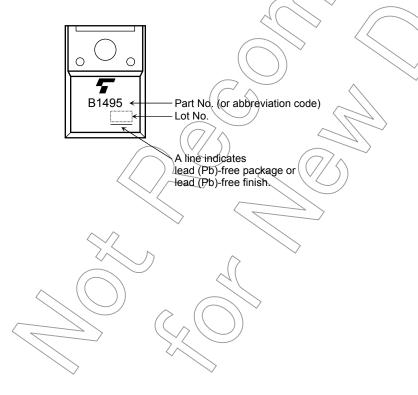
Equivalent Circuit



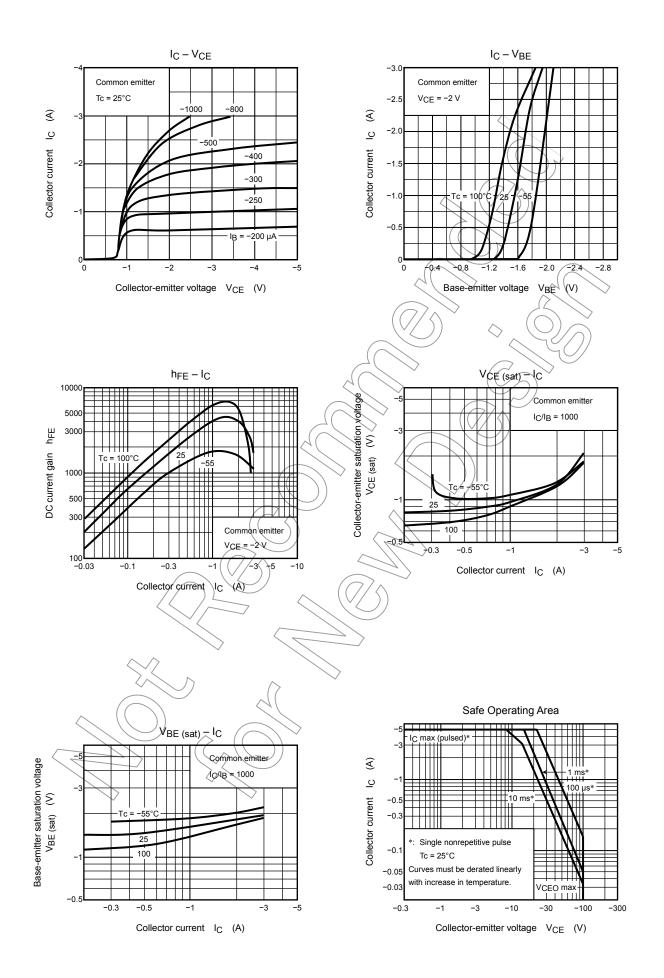
Electrical Characteristics (Tc = 25°C)

Chara	acteristics	Symbol	Test Condition	Min	Тур.	Max	Unit	
Collector cut-off of	current	I _{CBO}	$V_{CB} = -100 \text{ V}, \text{ I}_{E} = 0$	_	—	-10	μA	
Emitter cut-off cu	rrent	I _{EBO}	$V_{EB} = -8 V, I_C = 0$	-0.8	_	-4.0	mA	
Collector-emitter	breakdown voltage	V (BR) CEO	I _C = -10 mA, I _B = 0	-100	_	_	V	
DC current gain		h _{FE (1)}	$V_{CE} = -2 V, I_C = -1 A$	2000		_		
		h _{FE (2)}	$V_{CE} = -2 V, I_C = -2 A$	2000)}~_	_		
Collector-emitter	saturation voltage	V _{CE (sat)}	$I_{\rm C}$ = -1.5 A, $I_{\rm B}$ = -1.5 mA	\sum	_	-1.5	V	
Base-emitter satu	ration voltage	V _{BE (sat)}	$I_{\rm C}$ = -1.5 A, $I_{\rm B}$ = -1.5 mA	\bigcirc	_	-2.0	V	
Switching time	Turn-on time	t _{on}	20 µs Input Output		0.5	_	μs	
	Storage time	t _{stg}		- (1.0			
	Fall time	t _f	$-I_{B1} = I_{B2} = 1.5 \text{ mA}, \text{ duty cycle} \le 1\%$		0.4)		

Marking



TOSHIBA



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document shall be made at the customer's own risk.

• The information contained herein is subject to change without notice.

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