TOSHIBA Transistor Silicon PNP Epitaxial Type

2SB1495

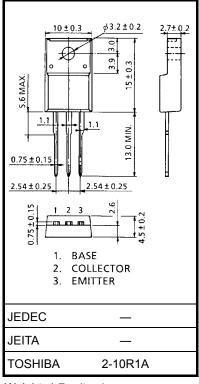
High-Power Switching Applications

Unit: mm

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

Absolute Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V_{CBO}	-100	V	
Collector-emitter voltage		V _{CEO}	-100	V	
Emitter-base voltage		V _{EBO}	-8	V	
Collector current	DC	IC	-3	А	
	Pulsed	I _{CP}	-5		
Base current		ΙB	-0.3	Α	
Collector power dissipation	Ta = 25°C	D-	2.0	W	
	Tc = 25°C	P _C	20		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	−55 to 150	°C	



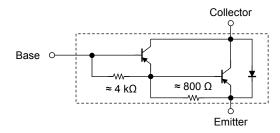
Weight: 1.7 g (typ.)

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).

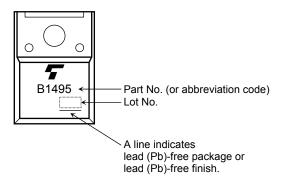
Equivalent Circuit

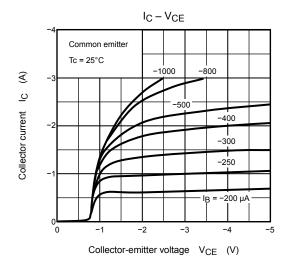


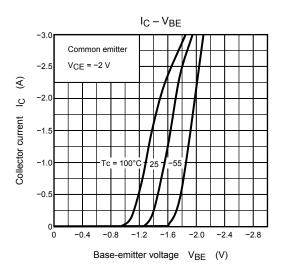
Electrical Characteristics (Tc = 25°C)

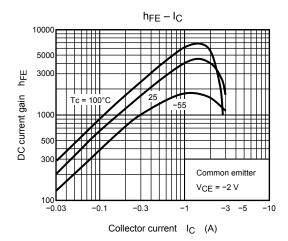
Chara	Characteristics Symbol Test Condition		Min	Тур.	Max	Unit	
Collector cut-off current		I _{CBO}	V _{CB} = -100 V, I _E = 0	_	_	-10	μΑ
Emitter cut-off cur	Emitter cut-off current I_{EBO} $V_{EB} = -8 \text{ V}, I_{C} = 0$		-0.8	_	-4.0	mA	
Collector-emitter I	oreakdown voltage	V (BR) CEO	CEO I _C = -10 mA, I _B = 0		_	_	٧
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	ollector-emitter saturation voltage $V_{CE (sat)}$ $I_{C} = -1.5 \text{ A}, I_{B} = -1.5 \text{ mA}$		_	_	-1.5	V	
Base-emitter saturation voltage		V _{BE} (sat)	I _C = -1.5 A, I _B = -1.5 mA	_	_	-2.0	V
Switching time	Turn-on time	ton	20 μs Input Output	_	0.5	_	
	Storage time	t _{stg}	B1 B2	_	1.0	_	μs
	Fall time	t _f	$V_{CC} \approx -30 \text{ V}$ $-I_{B1} = I_{B2} = 1.5 \text{ mA}, \text{ duty cycle} \le 1\%$	_	0.4	_	

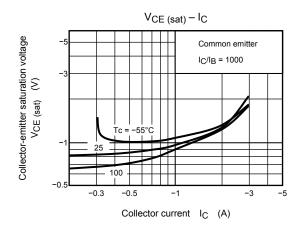
Marking

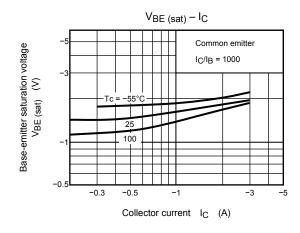


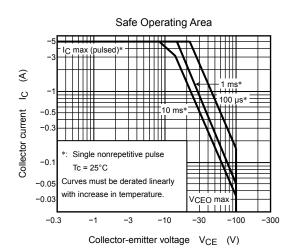












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