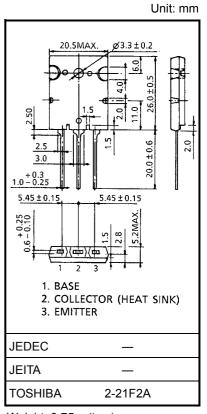
TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

2SC5446

HORIZONTAL DEFLECTION OUTPUT FOR HIGH RESOLUTION DISPLAY, COLOR TV HIGH SPEED SWITCHING APPLICATIONS

MAXIMUM RATINGS (Tc = 25°C)

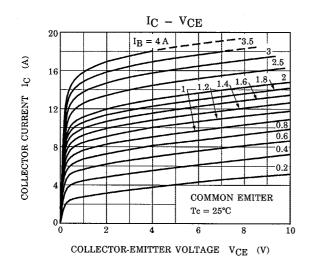
CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V_{CBO}	1700	V	
Collector-Emitter Voltage		V _{CEO}	600	V	
Emitter-Base Voltage		V _{EBO}	5	V	
Collector Current	DC	IC	18	Α	
	Pulse	I _{CP}	36		
Base Current		Ι _Β	9	Α	
Collector Power Dissipation		PC	200	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{Stg}	-55~150	°C	

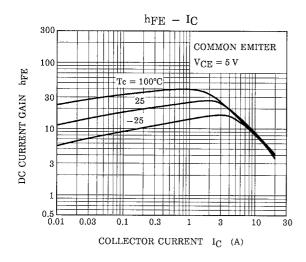


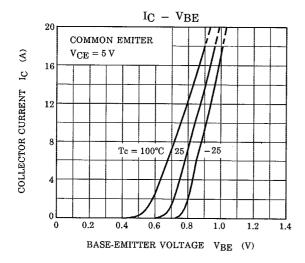
Weight: 9.75 g (typ.)

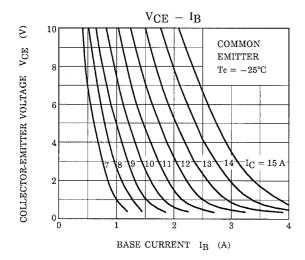
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

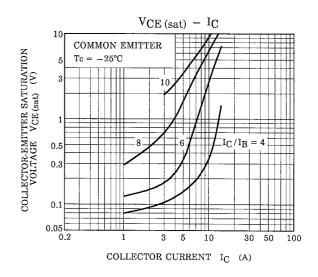
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Collector Cut-off C	Current	I _{CBO}	V _{CB} = 1700 V, I _E = 0	_	_	1	mA
Emitter Cut-off Cu	rrent	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	10	μΑ
Emitter-Base Brea	ıkdown Voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	600	_	_	V
DC Current Gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 2 A	10	_	40	_
		h _{FE (2)}	V _{CE} = 5 V, I _C = 9 A	6	_	13	
		h _{FE (3)}	V _{CE} = 5 V, I _C = 14 A	4	_	8	
Collector-Emitter S	Saturation Voltage	V _{CE} (sat)	I _C = 14 A, I _B = 3.5 A	_	_	3	V
Base-Emitter Satu	ration Voltage	V _{BE (sat)}	I _C = 14 A, I _B = 3.5 A	_	1.0	1.5	V
Transition Frequen	ісу	f _T	V _{CE} = 10 V, I _C = 0.1 A	_	1.7	_	MHz
Collector Output Capacitance		C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	290	_	pF
Switching Time	Storage Time	t _{stg (1)}	I _{CP} = 9 A, I _{B1} (end) = 1.5 A	_	2.5	3.5	μs
	Fall Time	t _{f (1)}	f _H = 64 kHz	_	0.12	0.3	
	Storage Time	t _{stg (2)}	I _{CP} = 7 A, I _{B1} (end) = 1.25 A	_	2.1	2.3	- μs
	Fall Time	t _{f (2)}	f _H = 100 kHz	_	0.10	0.15	

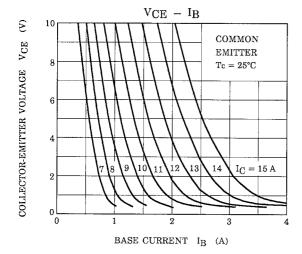


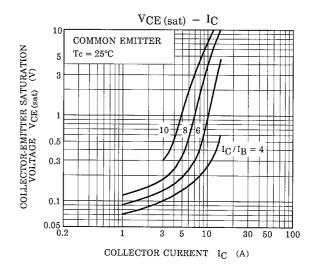


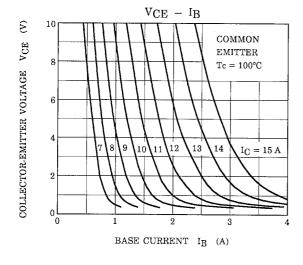


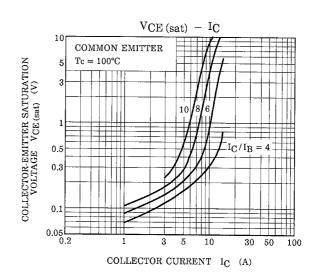




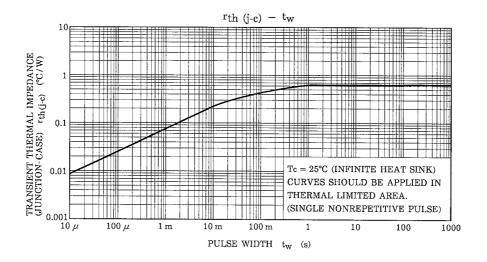


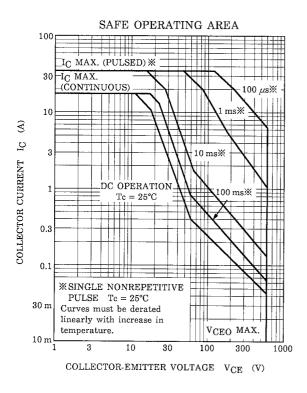


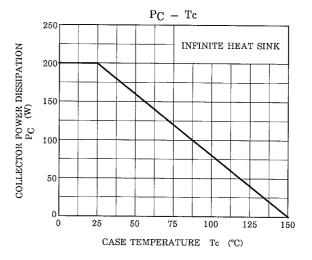




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