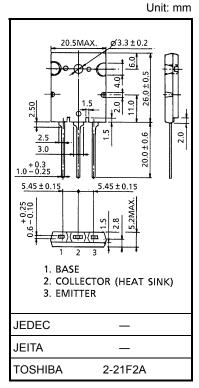
TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

2SC5445

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}	1500	V	
Collector-Emitter Voltage		V _{CEO}	600	V	
Emitter-Base Voltage		V_{EBO}	5	V	
Collector Current	DC	Ic	20	Α	
	Pulse	I _{CP}	40		
Base Current		ΙΒ	10	Α	
Collector Power Dissipation		PC	200	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	

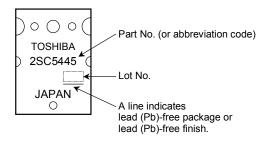


Weight: 9.75 g (typ.)

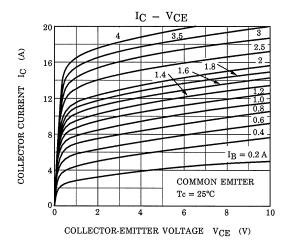
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

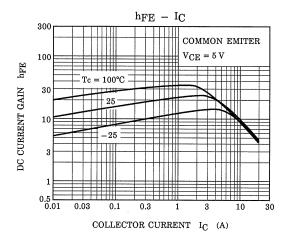
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} = 1500 V, I _E = 0	_	_	1	mA
Emitter Cut-off C	urrent	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	10	μA
Emitter-Base Bre	akdown Voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	600	_	_	V
DC Current Gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 2 A	10	_	40	_
		h _{FE (2)}	V _{CE} = 5 V, I _C = 10 A	7	_	14.5	
		h _{FE} (3)	V _{CE} = 5 V, I _C = 15 A	4.5	_	8.5	
Collector-Emitter	Saturation Voltage	V _{CE} (sat)	I _C = 15 A, I _B = 3.75 A	_	_	3	V
Base-Emitter Saturation Voltage		V _{BE (sat)}	I _C = 15 A, I _B = 3.75 A	_	1.0	1.5	V
Transition Frequency		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} = 10 A, I _{B1} (end) = 1.7 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} = 8 A, I _{B1} (end) = 1.4 A f _H = 100 kHz	_	2.0	2.2	μs
	Fall Time	t _{f (2)}		_	0.10	0.15	

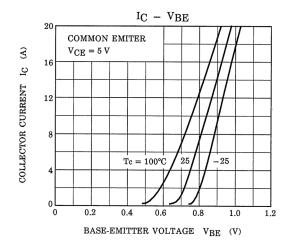
Marking



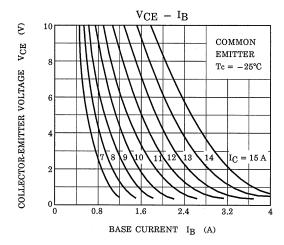
2 2004-07-07

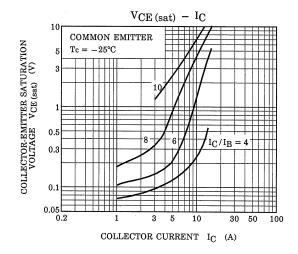


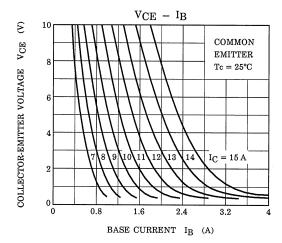


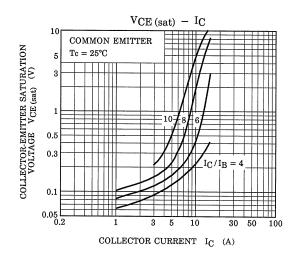


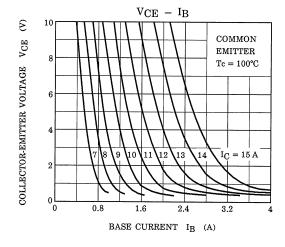
3 2004-07-07

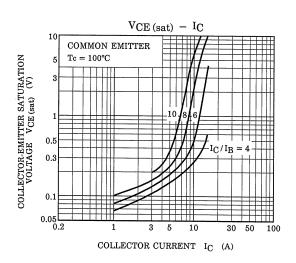


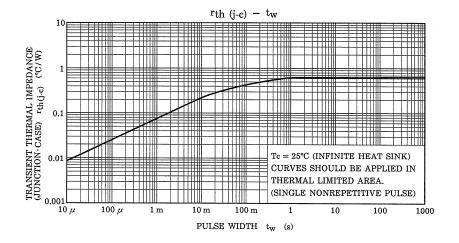


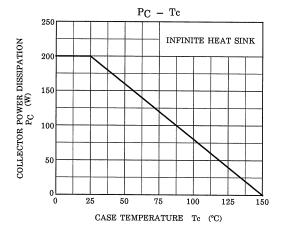


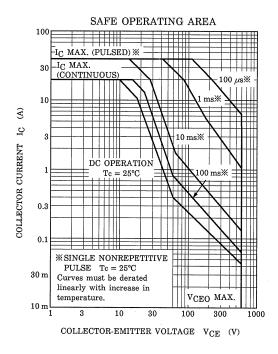












5 2004-07-07

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