TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

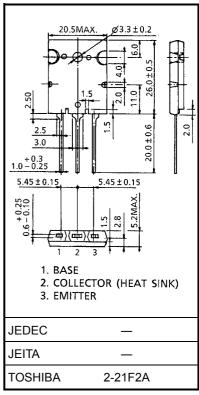
2SC5612

HORIZONTAL DEFLECTION OUTPUT FOR COLOR TV

Unit: mm

MAXIMUM RATINGS (Tc = 25°C)

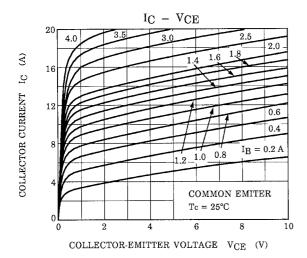
CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V_{CBO}	2000	V	
Collector-Emitter Voltage		V _{CEO}	900	V	
Emitter-Base Voltage		V _{EBO}	5	٧	
Collector Current	DC	IC	22	Α	
	Pulse	I _{CP}	44		
Base Current		Ι _Β	11	Α	
Collector Power Dissipation		PC	220	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	

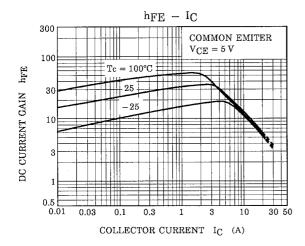


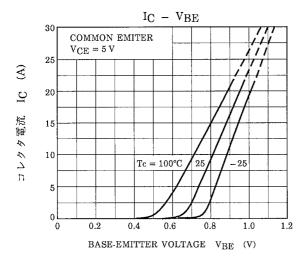
Weight: 9.75 g (typ.)

ELECTRICAL CHARACTERISTICS (Tc = 25°C)

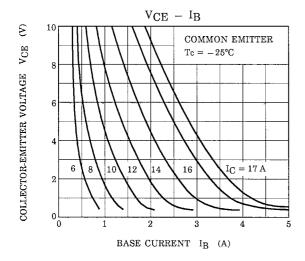
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} = 2000 V, I _E = 0	_	_	1	mA
Emitter Cut-off Current		I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	100	μA
Collector-Emitter Breakdown Voltage		V (BR) CEO	I _C = 10 mA, I _B = 0	900	_	_	V
DC Current Gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 2 A	15	_	50	_
		h _{FE (2)}	V _{CE} = 5 V, I _C = 9 A	9.5	_	18.5	
		h _{FE (3)}	V _{CE} = 5 V, I _C = 17 A	4.8	_	9.0	
Collector-Emitter Saturation Voltage		V _{CE} (sat)	I _C = 17 A, I _B = 4.25 A	_	_	3	V
Base-Emitter Saturation Voltage		V _{BE (sat)}	I _C = 17 A, I _B = 4.25 A	_	_	1.3	V
Transition Frequency		f _T	V _{CE} = 10 V, I _C = 0.1 A	_	2	_	MHz
Collector Output Capacitance		C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	470	_	pF
Switching Time	Storage Time	t _{stg}	I _{CP} = 8 A, I _{B1} (end) = 1A f _H = 32 kHz	_	4.0	5.0	μs
	Fall Time	t _f		_	0.15	0.35	

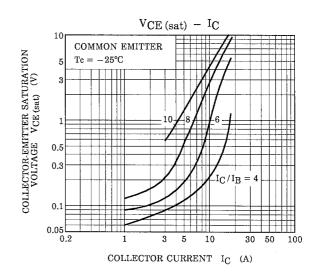


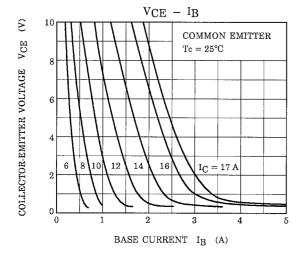


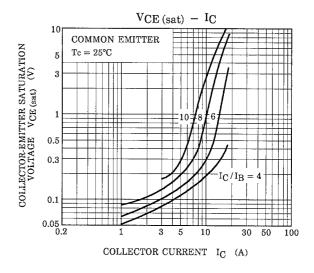


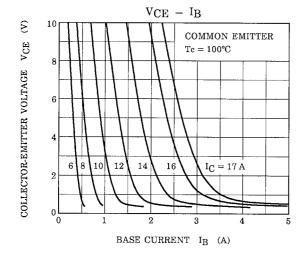
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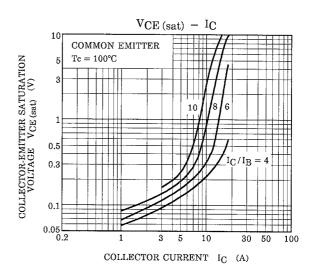




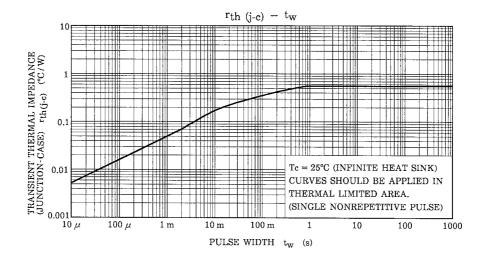


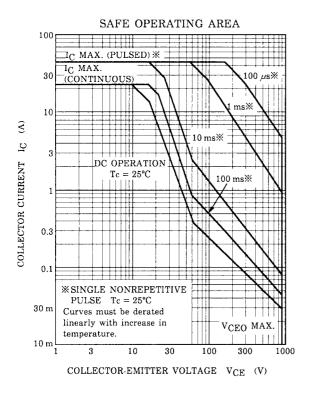


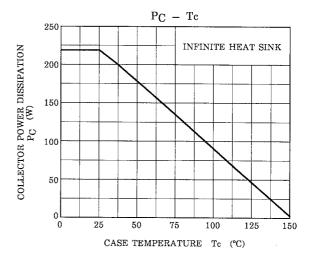




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