Unit: mm

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

2SC5570

HORIZONTAL DEFLECTION OUTPUT FOR HIGH RESOLUTION DISPLAY, COLOR TV

HIGH SPEED SWITCHING APPLICATIONS

High Voltage : V_{CBO} = 1700 V
 Low Saturation Voltage : V_{CE} (sat) = 3 V (Max.)
 High Speed : t_f (2) = 0.1 µs (Typ.)

MAXIMUM RATINGS (Tc = 25°C)

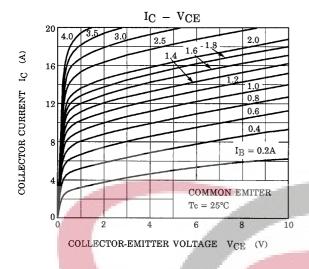
CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V _{CBO}	1700	V	
Collector-Emitter Voltage	ge	V _{CEO}	800	V	
Emitter-Base Voltage		V _{EBO}	5	V	
Collector Current -	DC	Ic	28	A	
	Pulse	I _{CP}	56		
Base Current		Ι _Β	14	Α	
Collector Power Dissipation		PC	220	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	

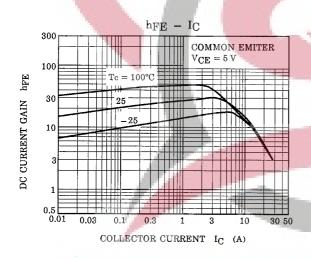
20.5MAX. Ø3.3±0.2 20.5MAX. Ø3.3±0.2 0.50 0.70 2.5 3.0 1.5 0.70 0.70 2.5 3.0 1. BASE 2. COLLECTOR (HEAT SINK) 3. EMITTER JEDEC JEITA TOSHIBA 2-21F2A

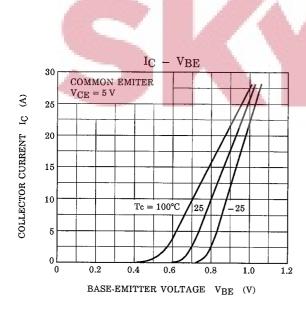
Weight: 9.75 g (typ.)

ELECTRICAL CHARACTERISTICS (Tc = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Collector Cut-off C	Current	Ісво	V _{CB} = 1700 V, I _E = 0	-		1	mA
Emitter Cut-off Cu	rrent	I _{EBO}	V _{EB} = 5 V, I _C = 0	8-	_	100	μA
Emitter-Base Brea	akdown Voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	800			V
DC Current Gain	h _{FE (1)}	V _{CE} = 5 V, I _C = 2 A	22	Н	48	_	
	h _{FE} (2)	V _{CE} = 5 V, I _C = 8 A	12.5	Ш	25		
	h _{FE} (3)	V _{CE} = 5 V, I _C = 22 A	4.5	_	7.5		
Collector-Emitter	Saturation Voltage	V _{CE} (sat)	I _C = 22 A, I _B = 5.5 A	_	_	3	V
Base-Emitter Satu	ıration Voltage	V _{BE} (sat)	I _C = 22 A, I _B = 5.5 A	_	1.0	1.5	V
Transition Frequer	псу	f _T	V _{CE} = 10 V, I _C = 0.1 A	_	2	_	MHz
Collector Output C	apacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	470	_	pF
Switching Time Fall Sto	Storage Time	t _{stg (1)}	I _{CP} = 10 A, I _{B1} (end) = 1.4 A	_	2.6	3.0	μs
	Fall Time	tf (1)	f _H = 64 kHz	_	0.2	0.3	
	Storage Time	t _{stg (2)}	I _{CP} = 8 A, I _{B1} (end) = 1.2 A	_	1.4	1.6	μs
	Fall Time	t _{f (2)}	f _H = 130 kHz	_	0.10	0.15	

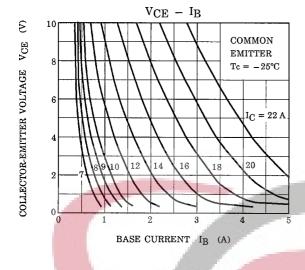


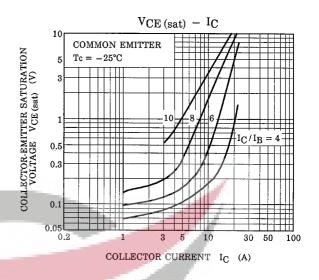


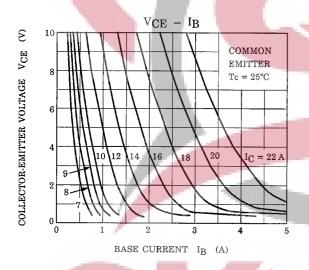


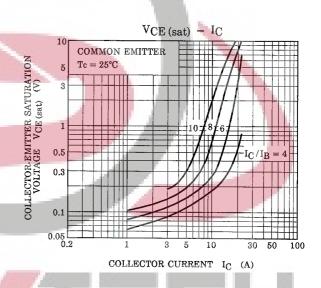
ELECTRONIC

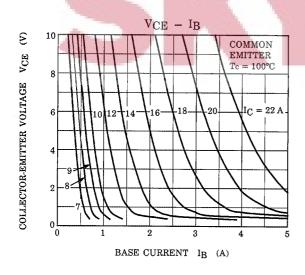
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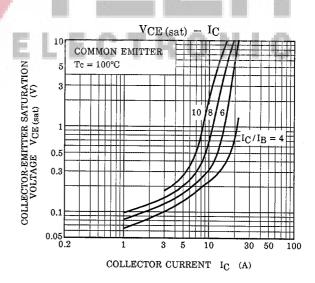


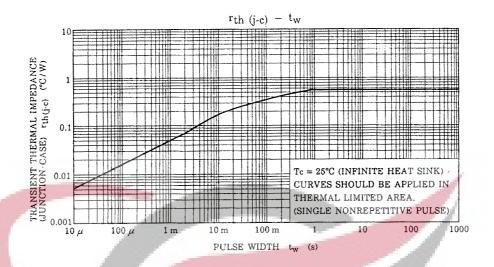


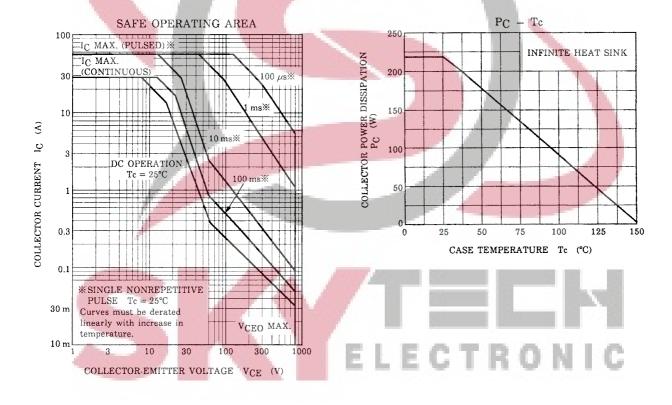














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