TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

2SC5589

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

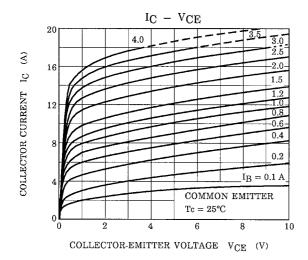
MAXIMUM RATINGS (Tc = 25°C)

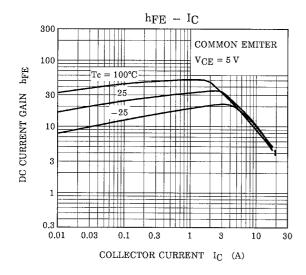
CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V_{CBO}	1500	V	
Collector-Emitter Voltage		V _{CEO}	750	٧	
Emitter-Base Voltage		V _{EBO}	5	V	
Collector Current	DC	IC	18	Α	
	Pulse	I _{CP}	36		
Base Current		Ι _Β	9	Α	
Collector Power Dissipationc		PC	200	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	

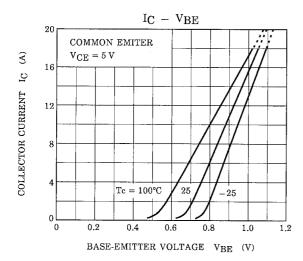
Weight: 9.75 g (typ.)

ELECTRICAL CHARACTERISTICS (Tc = 25°C)

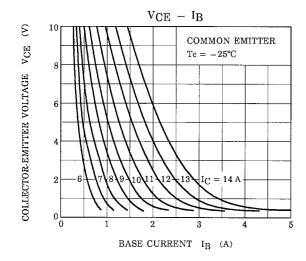
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} = 1500 V, I _E = 0	_	_	1	mA
Emitter Cut-off Current		I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	100	μΑ
Collector-Emitter Breakdown Voltage		V (BR) CEO	I _C = 10 mA, I _B = 0	750	_	_	V
DC Current Gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 2 A	22	_	48	_
		h _{FE (2)}	V _{CE} = 5 V, I _C = 7 A	9	_	18	
		h _{FE (3)}	V _{CE} = 5 V, I _C = 14 A	5	_	8	
Collector-Emitter Saturation Voltage		V _{CE} (sat)	I _C = 14 A, I _B = 3.5 A	_	_	3	V
Base-Emitter Saturation Voltage		V _{BE (sat)}	I _C = 14 A, I _B = 3.5 A	_	1.0	1.5	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	_	240	_	pF
Switching Time	Storage Time	t _{stg (1)}	I _{CP} = 9 A, I _{B1} (end) = 1.3 A	_	2.7	3	μs
	Fall Time	t _{f (1)}	f _H = 64 kHz	_	0.2	0.3	
	Storage Time	t _{stg (2)}	I _{CP} = 7.5 A, I _{B1} (end) = 1.1 A f _H = 100 kHz	_	1.8	2	μs
	Fall Time	t _{f (2)}		_	0.1	0.15	

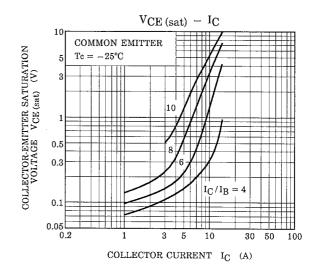


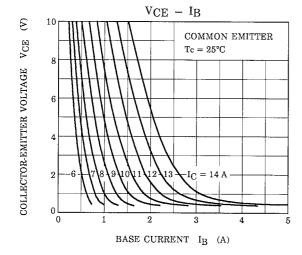


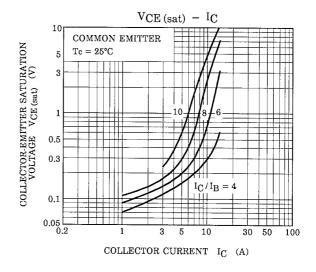


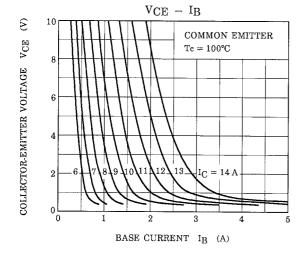
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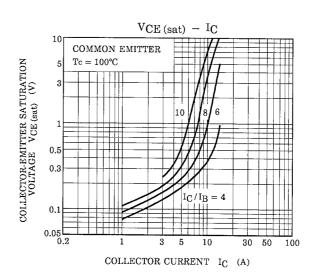




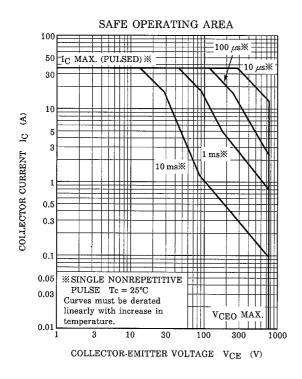


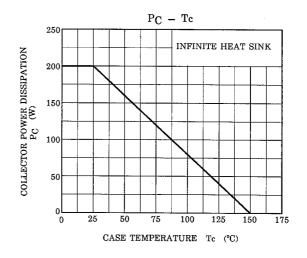






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