Unit: mm

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

2SC5859

HORIZONTAL DEFLECTION OUTPUT FOR HDTV, DIGITAL TV, PROJECTION TV

MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V_{CBO}	1700	V	
Collector-Emitter Voltage		V _{CEO}	750	V	
Emitter-Base Voltage		V _{EBO}	5	V	
Collector Current	DC	I _C	23	Α	
	Pulse	I _{CP}	46		
Base Current		ΙΒ	11.5	Α	
Collector Power Dissipation		PC	210	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	

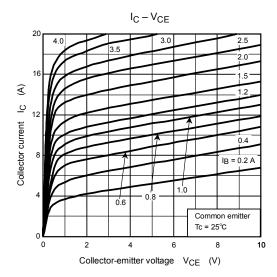
2-21F2A

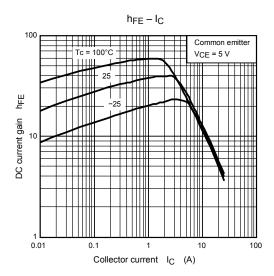
Weight: 9.75 g (typ.)

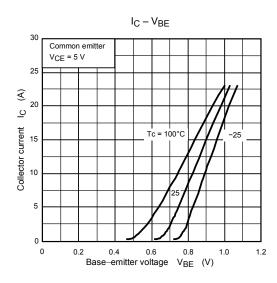
TOSHIBA

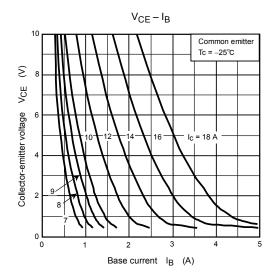
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

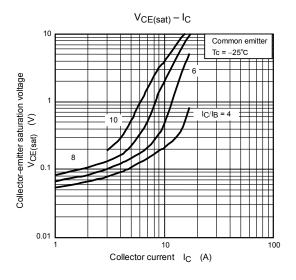
CHARACTERISTIC		SYMBOL	TEST CONDITION	Min	Тур.	Max	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} = 1700 V, I _E = 0	_	_	1	mA
Emitter Cut-off Current		I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	100	μΑ
Collector - Emitter Breakdown Voltage		V (BR) CEO	I _C = 10 mA, I _B = 0	750	_	_	V
DC Current Gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 2 A	20	_	55	_
		h _{FE (2)}	V _{CE} = 5 V, I _C = 8 A	10	_	22	
		h _{FE (3)}	V _{CE} = 5 V, I _C = 18 A	4.5	_	8	
Collector-Emitter Saturation Voltage		V _{CE} (sat)	I _C = 18 A, I _B = 4.5 A	_	_	3	V
Base-Emitter Saturation Voltage		V _{BE (sat)}	I _C = 18 A, I _B = 4.5 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	_	320	_	pF
Switching Time	Storage Time	t _{stg(1)}	I _{CP} = 8 A , I _{B1} (end) = 1 A	_	4	_	μs
	Fall Time	t _{f(1)}	f _H = 32 kHz	_	0.15	_	
	Storage Time	t _{stg(2)}	I _{CP} = 7.5 A, I _{B1} (end) = 1 A	_	1.8	_	- µs
	Fall Time	t _{f(2)}	f _H = 100 kHz	_	0.1	_	

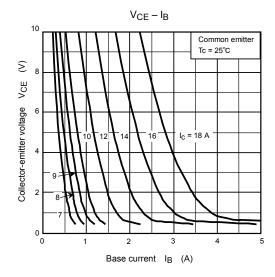


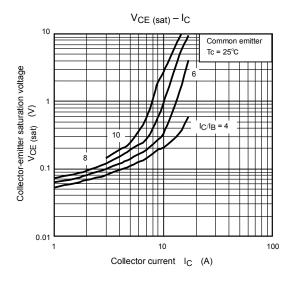


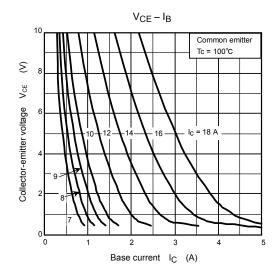


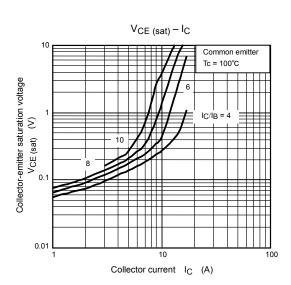


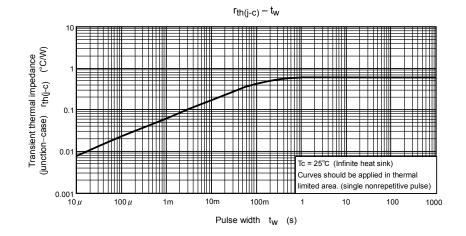


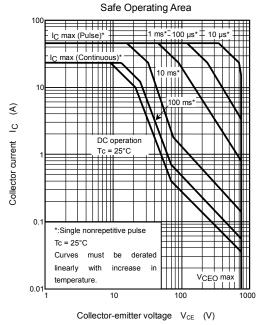


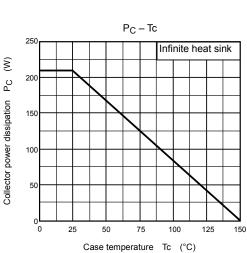


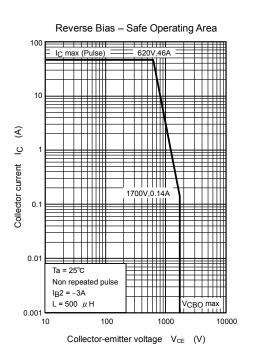












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