Unit: mm

Collector
 Emitter

2-16E3A

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

2SC5857

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	21	Α	
	Pulse	I _{CP}	42		
Base Current		ΙΒ	10.5	Α	
Collector Power Dissipation		PC	75	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	

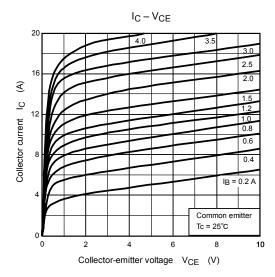
Weight: 5.5 g (typ.)

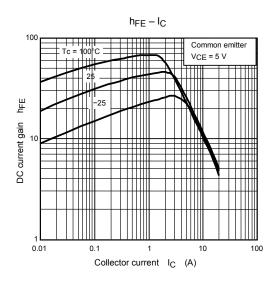
JEDEC JEITA TOSHIBA

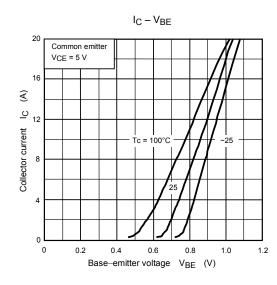
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

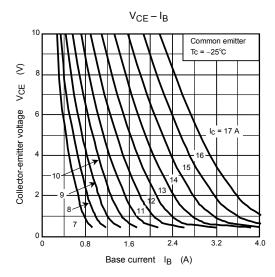
CHARACTERISTIC		SYMBOL	TEST CONDITION	Min	Тур.	Max	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} = 1700 V, I _E = 0	_	_	1	mA
Emitter Cut-off Current		I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	100	μΑ
Collector - Emitter Breakdown Voltage		V (BR) CEO	I _C = 10 mA, I _B = 0	750	_	_	V
DC Current Gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 2 A	30	_	60	_
		h _{FE (2)}	V _{CE} = 5 V, I _C = 8 A	11	_	19	
		h _{FE (3)}	V _{CE} = 5 V, I _C = 17 A	5	_	7.5	
Collector-Emitter Saturation Voltage		V _{CE (sat)}	I _C = 17 A, I _B = 4.25 A	_	_	1.5	V
Base-Emitter Saturation Voltage		V _{BE (sat)}	I _C = 17 A, I _B = 4.25 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	_	280	_	pF
Switching Time	Storage Time	t _{stg(1)}	I _{CP} = 9 A , I _{R1} (end) = 1.4 A	_	4.5	_	μs
	Fall Time	t _{f(1)}	f _H = 32 kHz	_	0.1	_	
	Storage Time	t _{stg(2)}	I _{CP} = 8 A, I _{B1} (end) = 1.2 A f _H = 45 kHz		3.5	_	- µs
	Fall Time	t _{f(2)}		_	0.1	_	

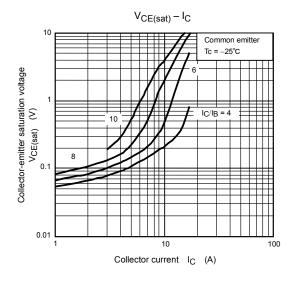
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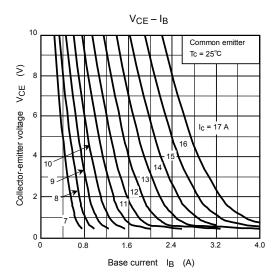


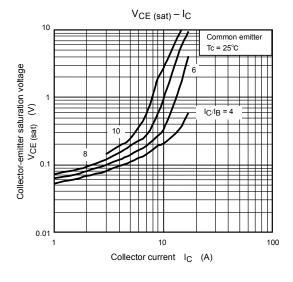


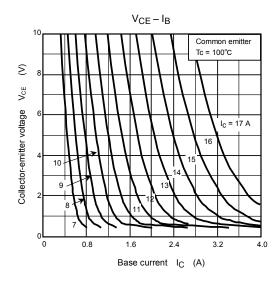


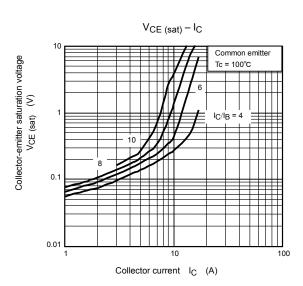


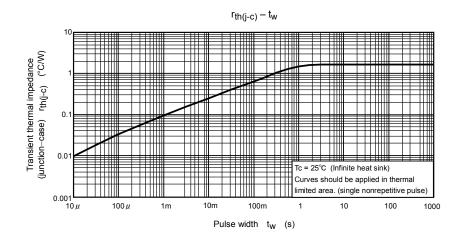


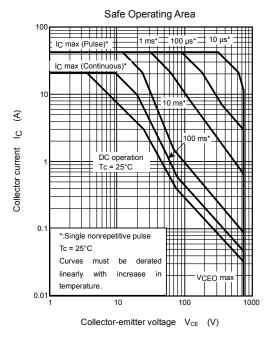


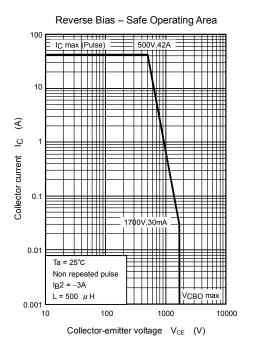


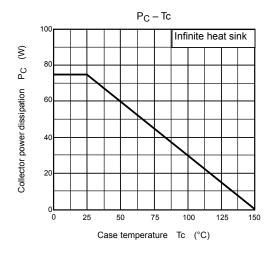












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