TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

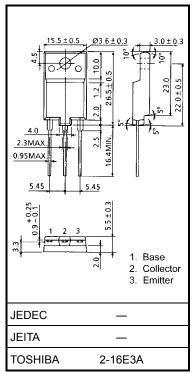
2SC5386

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

- High Voltage : $V_{CBO} = 1500 V$
- Low Saturation Voltage : VCE (sat) = 3 V (Max.)
- High Speed : $t_f = 0.15 \ \mu s \ (Typ.)$
- Collector Metal (Fin) is Fully Covered with Mold Resin.

MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V _{CBO}	1500	V	
Collector-Emitter Voltage		V _{CEO}	600	V	
Emitter-Base Voltage		V _{EBO}	5	V	
Collector Current	DC	Ι _C	8	A	
	Pulse	ICP	16		
Base Current		Ι _Β	4	А	
Collector Power Dissipation		P _C	50	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	



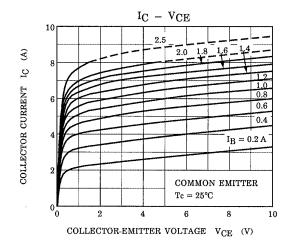
Weight: 5.5 g (typ.)

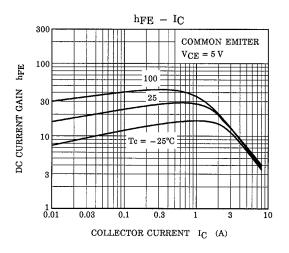
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

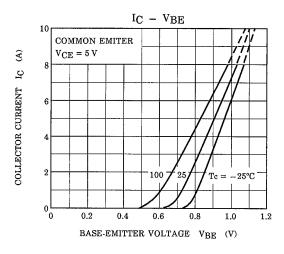
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} = 1500 V, I _E = 0	_	—	1	mA
Emitter Cut-off Current		I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	10	μA
Emitter-Base Breakdown Voltage		V (BR) CEO	I _C = 10 mA, I _B = 0	600	_	_	V
DC Current Gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 1 A	15	_	35	—
		h _{FE (2)}	V _{CE} = 5 V, I _C = 6 A	4.3	_	7.5	
Collector-Emitter Saturation Voltage		V _{CE (sat)}	I _C = 6 A, I _B = 1.5 A	_	_	3	V
Base-Emitter Saturation Voltage		V _{BE (sat)}	I _C = 6 A, I _B = 1.5 A	_	1.0	1.5	V
Transition Frequency		f _T	V _{CE} = 10 V, I _C = 0.1 A	—	1.7		MHz
Collector Output Capacitance		C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	—	105		pF
Switching Time	Storage Time	t _{stg}	I _{CP} = 5 A, I _{B1} (end) = 1.0 A f _H = 64 kHz	—	2.5	3.5	μs
	Fall Time	t _f		—	0.15	0.3	

Unit: mm

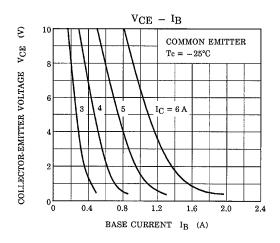
TOSHIBA

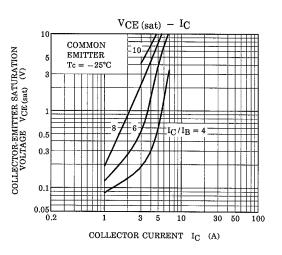


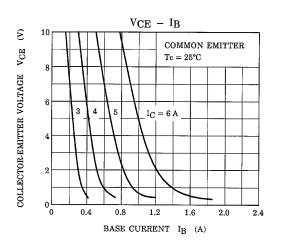


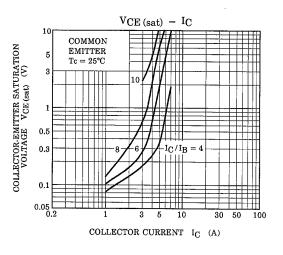


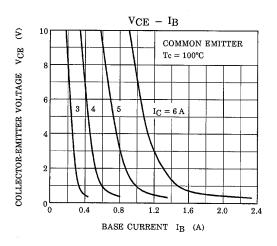
TOSHIBA

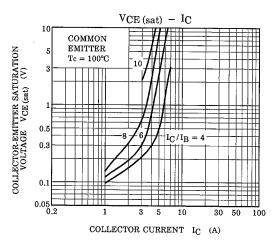


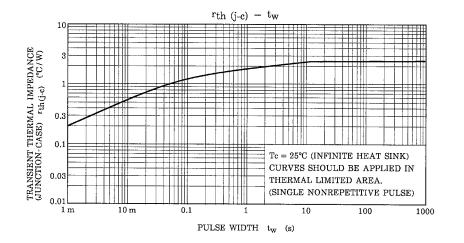


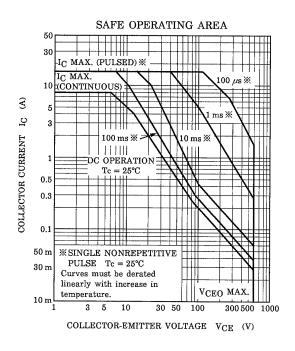


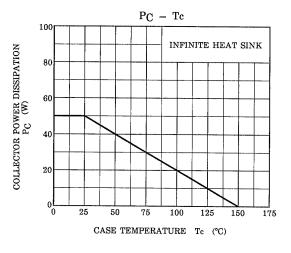












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