TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

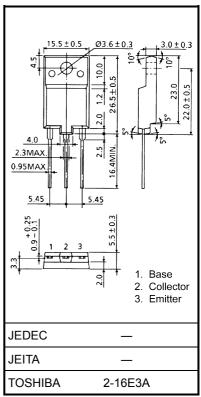
2SD2550

HORIZONTAL DEFLECTION OUTPUT FOR COLOR TV

- High Voltage $: V_{CBO} = 1700 V$
- Low Saturation Voltage $: V_{CE (sat)} = 5.0 V (Max.)$
- High Speed
- $t_{\rm f} = 0.6 \ \mu s \ (Max.)$
- Bult-in Damper Type
- Collector Metal (Fin) is Fully Covered with Mold Resin.

MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V _{CBO}	1700	V	
Collector-Emitter Voltage		V _{CEO}	600	V	
Emitter-Base Voltage		V _{EBO}	5	V	
Collector Current	DC	Ι _C	4	A	
	Pulse	I _{CP}	8		
Base Current		Ι _Β	2	А	
Collector Power Dissipation		PC	50	W	
Junction Temperature		Тј	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	



Weight: 5.5 g (typ.)

EQUIVALENT CIRCUIT

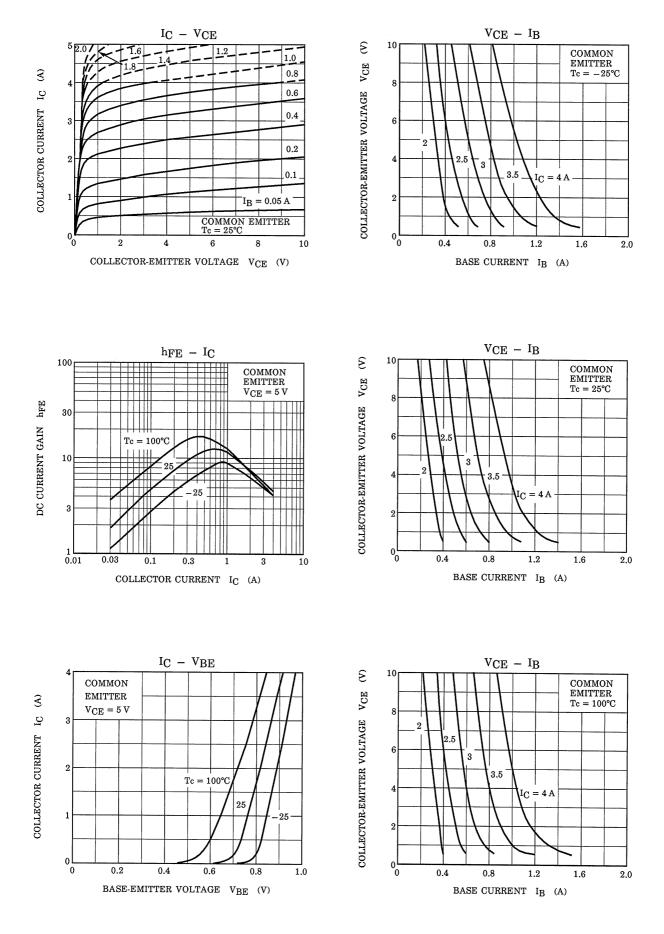
BASE O COLLECTOR 50 Ω (Typ.) EMITTER

ELECTRICAL CHARACTERISTICS (Tc = 25°C)

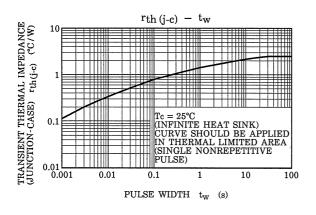
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} = 1700 V, I _E = 0	_	_	1	mA
Emitter Cut-off Current		I _{EBO}	V _{EB} = 5 V, I _C = 0	66	_	200	mA
Emitter-Base Breakdown Voltage		V (BR) EBO	I _C = 400 mA, I _B = 0	5	_	_	V
DC Current Gain		h _{FE}	V _{CE} = 5 V, I _C = 1 A	8	_	22	_
Collector-Emitter Saturation Voltage		V _{CE (sat)}	I _C = 3 A, I _B = 0.8 A	_	5	8	V
Base-Emitter Saturation Voltage		V _{BE (sat)}	I _C = 3 A, I _B = 0.8 A	_	_	1.2	V
Forward Voltage (Damper Diode)		VF	I _F = 4 A	_	1.5	2.0	V
Transition Frequency		f _T	V _{CE} = 10 V, I _C = 0.1 A	_	3	_	MHz
Collector Output Capacitance		C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	85	_	pF
Switching Time	Storage Time	t _{stg}	I _{CP} = 3 A, I _{B1} (end) = 0.8 A	_	7.5	10	μs
	Fall Time	t _f	f _H = 15.75 kHz	_	0.3	0.6	

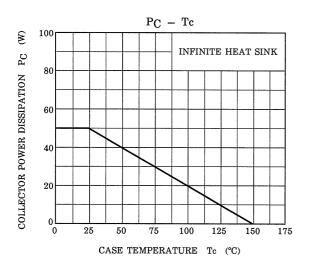
Unit: mm

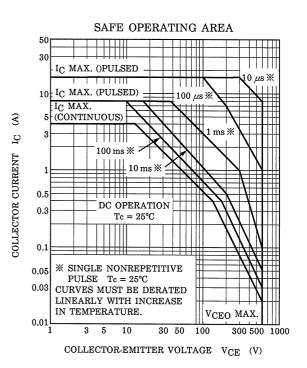
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