TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

2SD2500

HORIZONTAL DEFLECTION OUTPUT COLOR TV

Unit: mm

 $\begin{tabular}{ll} \bullet & High \ Voltage & : \ V_{CBO} = 1500 \ V \\ \bullet & Low \ Saturation \ Voltage & : \ V_{CE} \ (sat) = 3 \ V \ (Max.) \\ \bullet & High \ Speed & : \ t_f = 0.35 \mu s \ (Typ.) \\ \end{tabular}$

• Collector Metal (Fin) is Fully Covered with Mold Resin.

MAXIMUM RATINGS (Tc = 25°C)

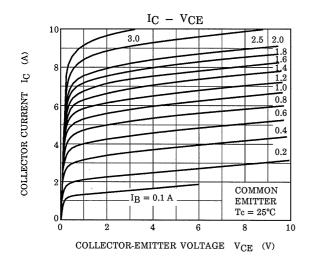
CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V_{CBO}	1500	V	
Collector-Emitter Voltage		V _{CEO}	600	٧	
Emitter-Base Voltage		V _{EBO}	5	V	
Collector Current	DC	Ic	10	Α	
	Pulse	I _{CP}	20		
Base-Current		Ι _Β	5	Α	
Collector Power Dissipation		PC	50	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	

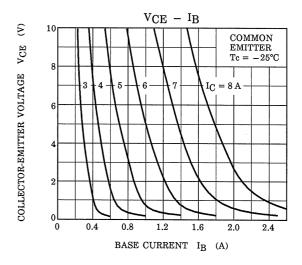
15.5±0.5 03.6±0.3 3.0±0.3 3.0±0.3 3.0±0.3 3.0±0.3 3.0±0.3 3.0±0.3 4.0 2.3MAX 0.95MAX 0.95MA

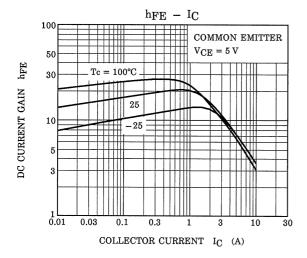
Weight: 5.5 g (typ.)

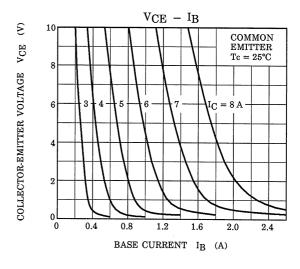
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

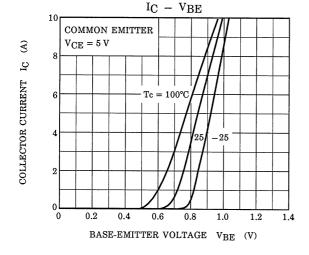
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CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} = 1500 V, I _E = 0	_	_	1	mA
Emitter Cut-off Current		I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	10	μA
Collector-Emitter Breakdown Voltage		V (BR) CEO	I _C = 10 mA, I _B = 0	600	_	_	V
DC Current Gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 1 A	10	_	30	_
		h _{FE (2)}	V _{CE} = 5 V, I _C = 6	4	_	8	
Collector-Emitter Saturation Voltage		V _{CE (sat)}	I _C = 6A I _B = 1.5A	_	_	3	V
Base-Emitter Saturation Voltage		V _{BE (sat)}	I _C = 6A I _B = 1.5A	_	1.0	1.4	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	_	135	_	pF
Switching Time	Storage Time	t _{stg}	I _{CP} = 6A, I _{B1} (end) = 1.5A f _H = 15.75kHz	_	7	11	μs
	Fall Time	t _f		_	0.35	0.7	

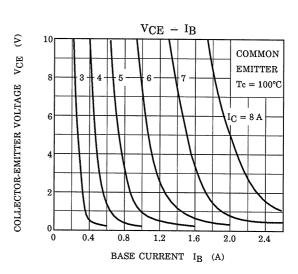




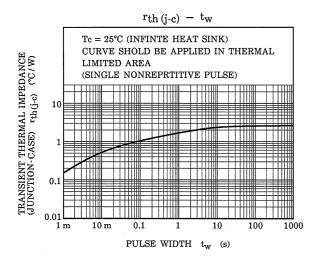


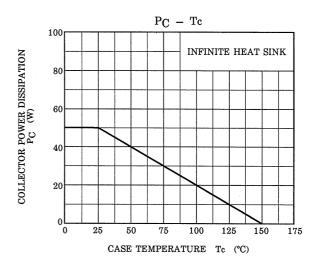


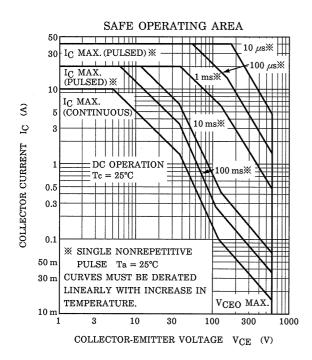




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