TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

2SD2550

HORIZONTAL DEFLECTION OUTPUT FOR COLOR TV

Unit: mm

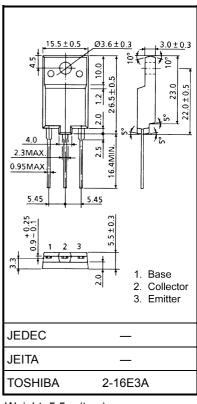
 $\begin{array}{ll} \bullet & \mbox{High Voltage} & : \mbox{V}_{CBO} = 1700 \ \mbox{V} \\ \bullet & \mbox{Low Saturation Voltage} & : \mbox{V}_{CE} \ (sat) = 5.0 \ \mbox{V} \ (Max.) \\ \bullet & \mbox{High Speed} & : \mbox{t}_f = 0.6 \ \mbox{μs} \ (Max.) \\ \end{array}$

• Bult-in Damper Type

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

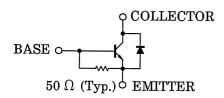
MAXIMUM RATINGS (Tc = 25°C)

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	Ic	4	A	
	Pulse	I _{CP}	8		
Base Current		Ι _Β	2	Α	
Collector Power Dissipation		PC	50	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	



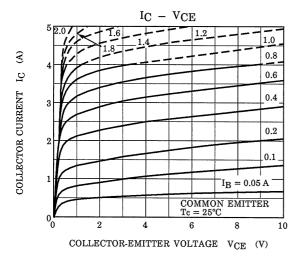
Weight: 5.5 g (typ.)

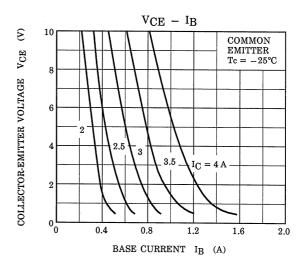
EQUIVALENT CIRCUIT

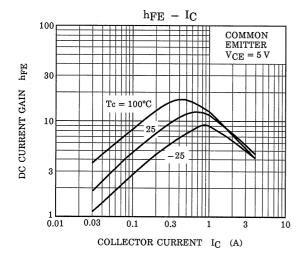


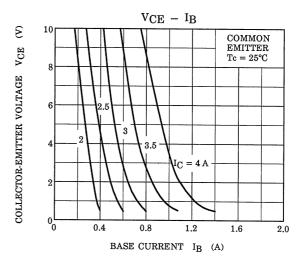
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

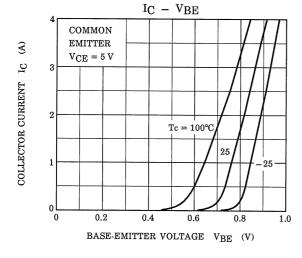
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} = 1700 V, I _E = 0	_	_	1	mA
Emitter Cut-off Current		I _{EBO}	V _{EB} = 5 V, I _C = 0	66	_	200	mA
Emitter-Base Breakdown Voltage		V (BR) EBO	I _C = 400 mA, I _B = 0	5	_	_	V
DC Current Gain		h _{FE}	V _{CE} = 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)		V _F	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 f _H = 15.75 kHz	_	7.5	10	μs
	Fall Time	t _f		_	0.3	0.6	

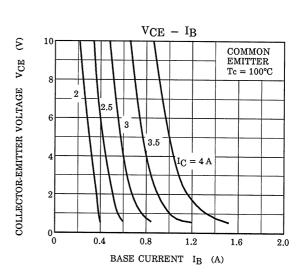




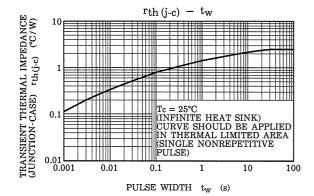


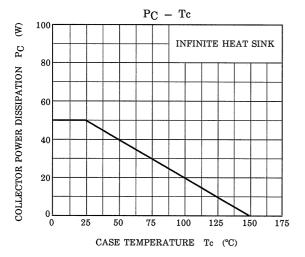


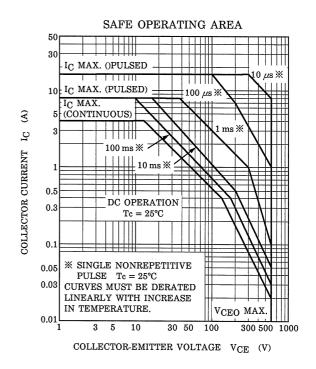




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