TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED MESA TYPE

2SD2586

HORIZONTAL DEFLECTION OUTPUT FOR COLOR TV

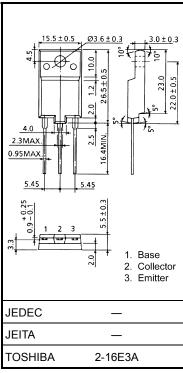
Unit: mm

Built-in Damper Type

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

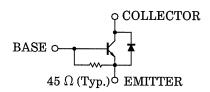
MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		V_{CBO}	1500	V	
Collector-Emitter Voltage		V _{CEO}	600	٧	
Emitter-Base Voltage		V _{EBO}	5	V	
Collector Current	DC	I _C	5	А	
	Pulse	I _{CP}	10		
Base Current		lΒ	2.5	Α	
Collector Power Dissipation		PC	50	W	
Junction Temperature		Tj	150	°C	
Storage Temperature Range		T _{stg}	-55~150	°C	

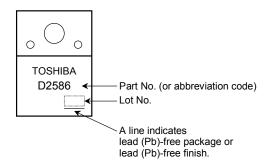


Weight: 5.5 g (typ.)

EQUIVALENT CIRCUIT



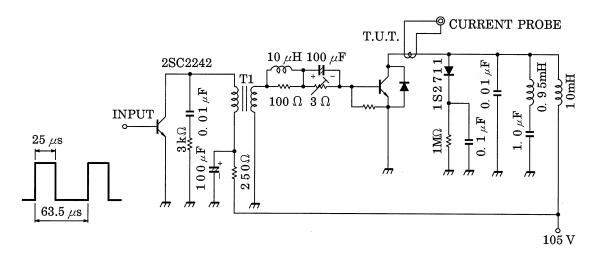
MARKING

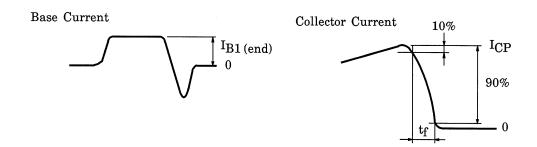


ELECTRICAL CHARACTERISTICS (Tc = 25°C)

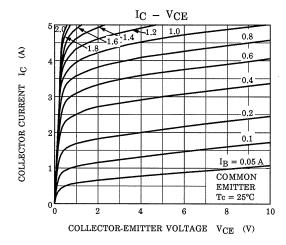
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Collector Cut-off Current		I _{CBO}	V _{CB} = 1500 V, I _E = 0	_	_	1	mA
Emitter Cut-off Current		I _{EBO}	V _{EB} = 5 V, I _C = 0	70	_	250	mA
Emitter-Base Breakdown Voltage		V (BR) EBO	I _C = 300 mA, I _C = 0	5	_	_	٧
DC Current Gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 1 A	8	_	28	_
		h _{FE (2)}	V _{CE} = 5 V, I _C = 3.5 A	4.4	_	8.5	
Collector-Emitter Saturation Voltage		V _{CE} (sat)	I _C = 3.5 A, I _B = 0.8 A	_	_	5	٧
Base-Emitter Saturation Voltage		V _{BE (sat)}	I _C = 3.5 A, I _B = 0.8 A	_	0.9	1.5	٧
Forward Voltage (Damper Diode)		V _F	I _F = 5 A	_	1.5	2.0	٧
Transition Frequency		f _T	V _{CE} = 10 V, I _C = 0.1 A	_	2.5	_	MHz
Collector Output Capacitance		C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	73	_	pF
Switching Time (Fig.1)	Storage Time	t _{stg}	I _{CP} = 3.5 A, I _{B1 (end)} = 0.8 A f _H = 15.75 kHz	_	7.5	10	μs
	Fall Time	t _f	f _H = 15.75 kHz	_	0.3	0.6	

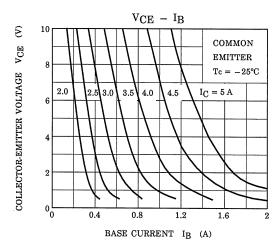
Fig.1 SWITCHING TIME TEST CIRCUIT (fh = 15.75 khz)

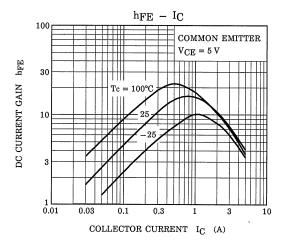


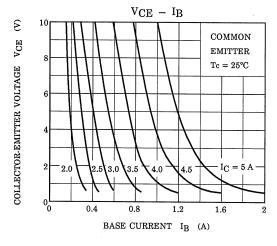


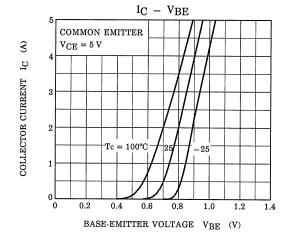
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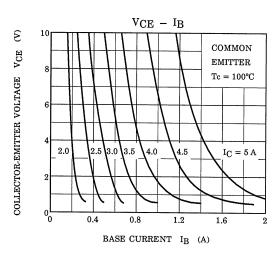


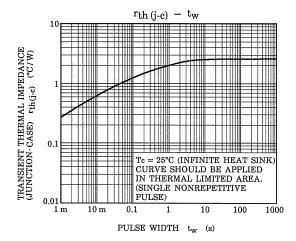


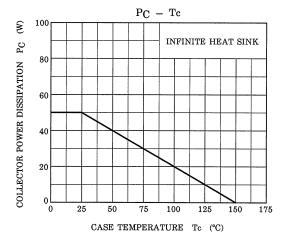


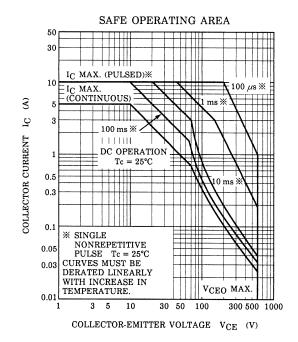












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