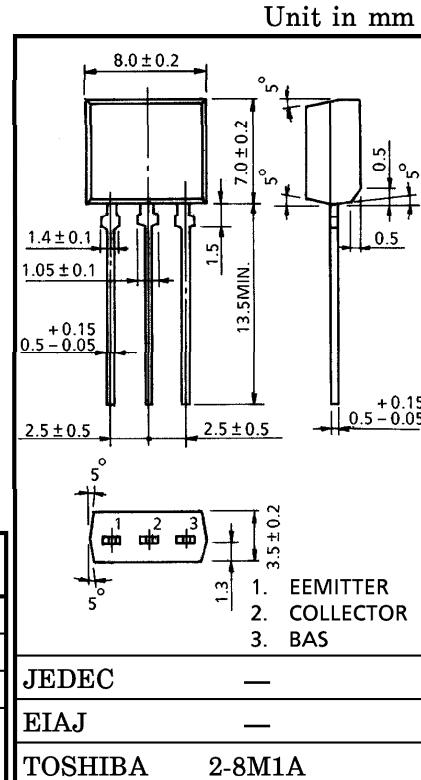


TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

2SC5562

SWITCHING REGULATOR AND HIGH VOLTAGE SWITCHING
APPLICATIONS

- Excellent Switching Times ($I_C = 0.3$ A)
: $t_r = 0.7 \mu\text{s}$ (Max.), $t_f = 0.5 \mu\text{s}$ (Max.)
- High Collector Breakdown Voltage : $V_{CEO} = 800$ V
- High Speed DC-DC Converter Applications

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	900	V
Collector-Emitter Voltage		V_{CEO}	800	V
Emitter-Base Voltage		V_{EBO}	7	V
Collector Current	DC	I_C	0.8	A
	Pulse	I_{CP}	1.5	
Base Current		I_B	0.4	A
Collector Power Dissipation		P_C	1.3	W
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55~150	°C

Weight : 0.55 g (Typ.)

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current	ICBO	V _{CB} = 720 V, I _E = 0	—	—	100	μA	
Emitter Cut-off Current	IEBO	V _{EB} = 7 V, I _C = 0	—	—	1	mA	
Collector-Base Breakdown Voltage	V (BR) CBO	I _C = 1 mA, I _E = 0	900	—	—	V	
Collector-Emitter Breakdown Voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	800	—	—	V	
DC Current Gain	h _{FE} (1)	V _{CE} = 5 V, I _C = 1 mA	10	—	—		
	h _{FE} (2)	V _{CE} = 5 V, I _C = 0.08 A	15	—	60		
Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C = 0.3 A, I _B = 0.06 A	—	—	1.0	V	
Base-Emitter Saturation Voltage	V _{BE} (sat)	I _C = 0.3 A, I _B = 0.06 A	—	—	1.2	V	
Switching Time	Rise Time	tr				μs	
	Storage Time	t _{stg}					
	Fall Time	tf					

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