

TOSHIBA**2SC2555**

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

2SC2555

SWITCHING REGULATOR AND HIGH VOLTAGE SWITCHING APPLICATIONS.

INDUSTRIAL APPLICATIONS

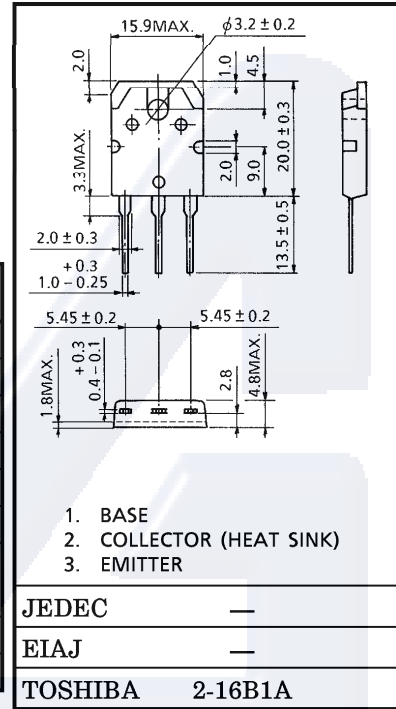
Unit in mm

HIGH SPEED DC-DC CONVERTER APPLICATIONS.

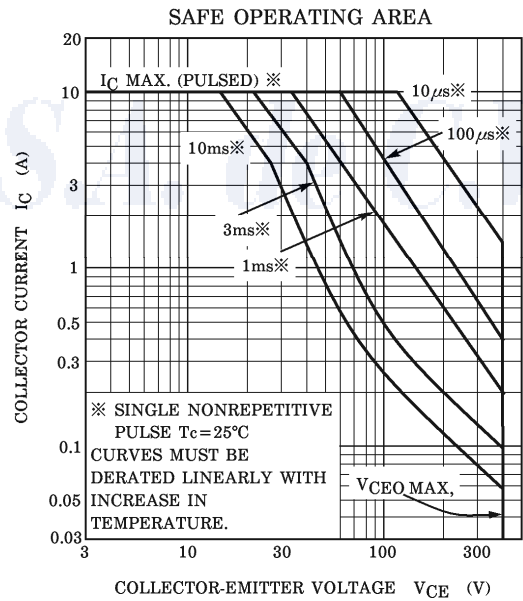
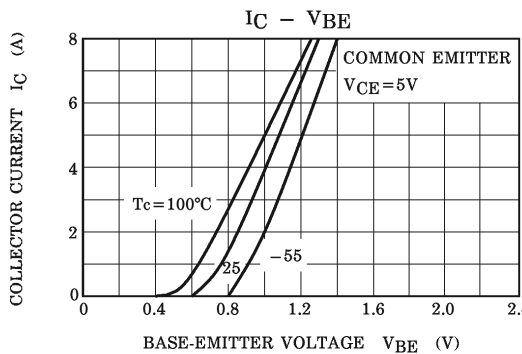
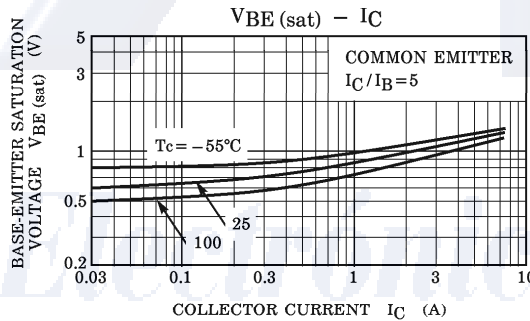
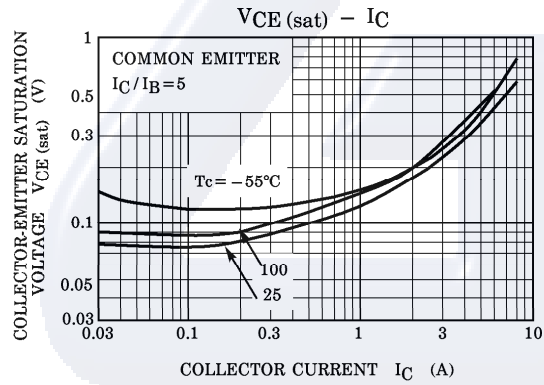
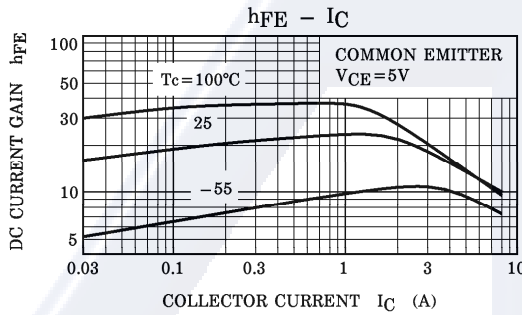
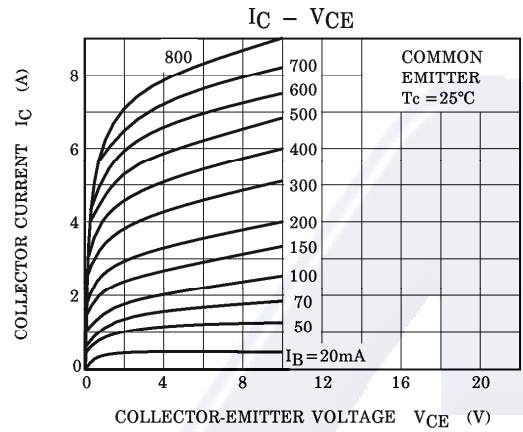
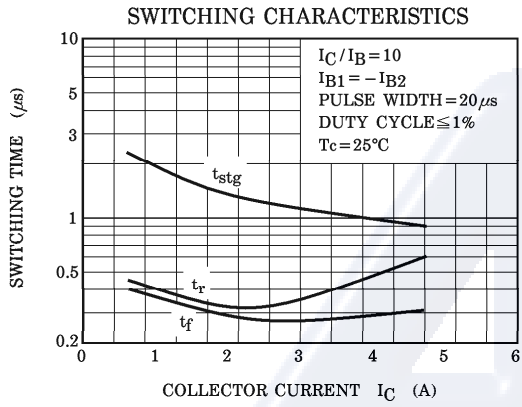
- Excellent Switching Times
: $t_r=1.0\mu s$ (Max.), $t_f=1.0\mu s$ (Max.) at $I_C=4A$
- High Collector Breakdown Voltage : $V_{CEO}=400V$

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	500	V
Collector-Emitter Voltage	V_{CEO}	400	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	DC	I_C	8 A
	Pulse	I_{CP}	10 A
Base Current	I_B	4	A
Collector Power Dissipation	$T_a=25^\circ C$	P_C	2.5 W
	$T_c=25^\circ C$		80
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55~150	$^\circ C$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT		
Collector Cut-off Current	I_{CBO}	$V_{CB}=400V, I_E=0$	—	—	100	μA		
Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V, I_C=0$	—	—	1	mA		
Collector-Base Breakdown Voltage	$V(BR)_{CBO}$	$I_C=1mA, I_E=0$	500	—	—	V		
Collector-Emitter Breakdown Voltage	$V(BR)_{CEO}$	$I_C=10mA, I_B=0$	400	—	—	V		
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5V, I_C=1A$	15	—	—			
	$h_{FE(2)}$	$V_{CE}=5V, I_C=4A$	10	—	—			
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	$I_C=4A, I_B=0.8A$	—	—	1.0	V	
	Base-Emitter	$V_{BE(sat)}$	$I_C=4A, I_B=0.8A$	—	—	1.5		
Switching Time	Rise Time	t_r			—	—	1.0	μs
	Storage Time	t_{stg}			—	—	2.5	
	Fall Time	t_f			—	—	1.0	



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