

9097250 TOSHIBA (DISCRETE/OPTO)

56C 07836 D J-33-13

SILICON NPN TRIPLE DIFFUSED TYPE

2SD873

INDUSTRIAL APPLICATIONS.

HIGH POWER AMPLIFIER APPLICATIONS.

HIGH POWER SWITCHING APPLICATIONS.

DC-DC CONVERTER APPLICATIONS.

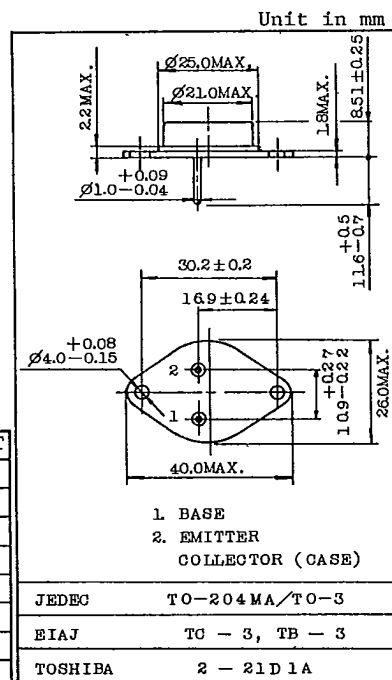
REGULATOR APPLICATIONS.

FEATURES:

- High Power Dissipation : $P_C=150W$ ($T_c=25^\circ C$)
- High Collector Current : $I_C=16A$
- Low Saturation Voltage : $V_{CE(sat)}=0.4V(Typ.)$ ($I_C=8A$)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	160	V
Collector-Emitter Voltage	V_{CEO}	140	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_C	16	A
Base Current	I_B	4	A
Collector Power Dissipation ($T_c=25^\circ C$)	P_C	150	W
Junction Temperature	T_j	175	$^\circ C$
Storage Temperature Range	T_{stg}	-65~175	$^\circ C$

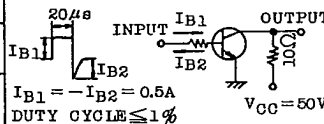


Mounting Kit No. AC73

Weight : 12.6g

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

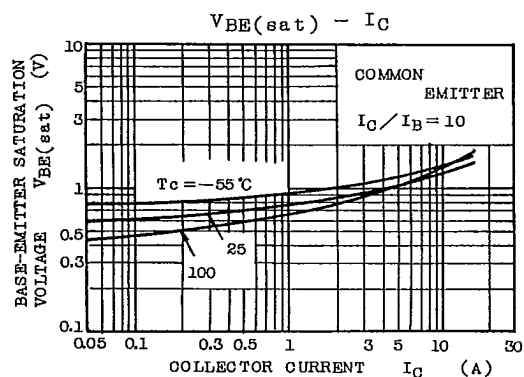
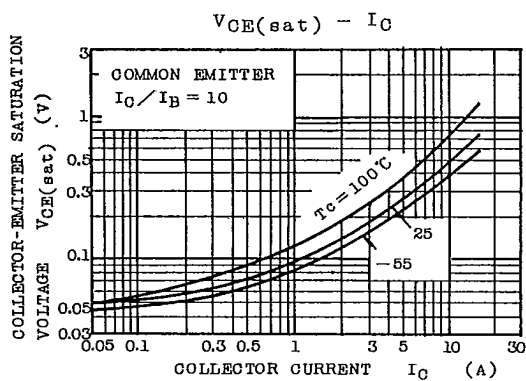
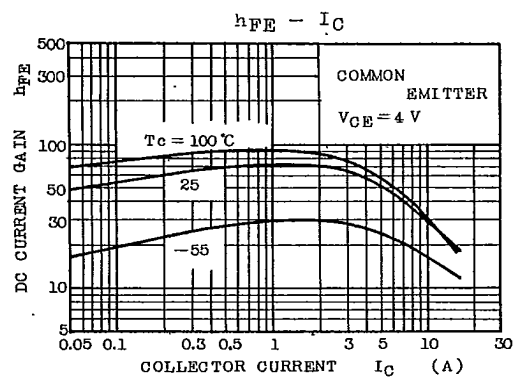
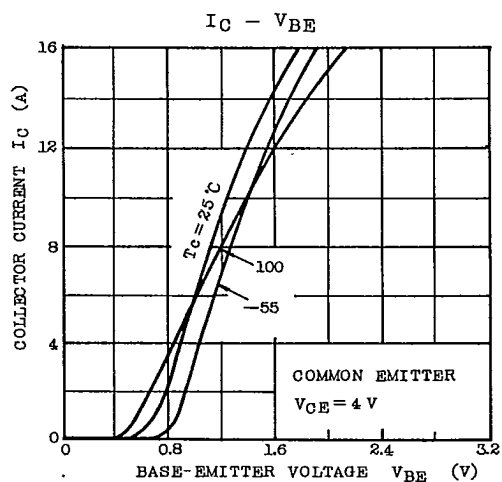
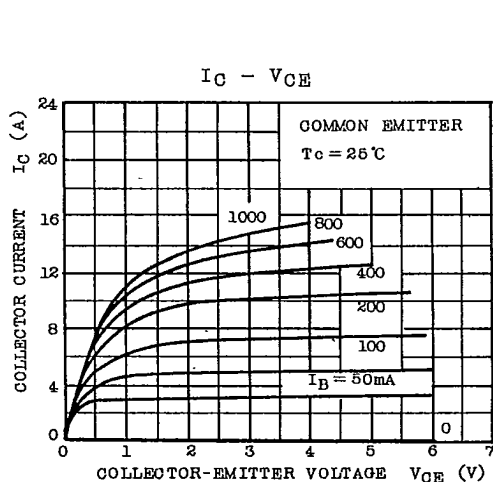
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=140V, I_E=0$	-	-	100	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V, I_C=0$	-	-	100	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	140	-	-	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=4V, I_C=8A$	15	-	60	
	$h_{FE(2)}$	$V_{CE}=4V, I_C=16A$	5	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=8A, I_B=0.8A$	-	0.4	1.4	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=4V, I_C=8A$	-	1.2	2.2	V
Transition Frequency	f_T	$V_{CE}=4V, I_C=1A$	-	1.5	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	350	-	pF
Switching Time	Turn-on Time	t_{on}	-	2.5	-	μs
	Storage Time	t_{stg}	-	4.5	-	
	Fall Time	t_f	-	1.4	-	



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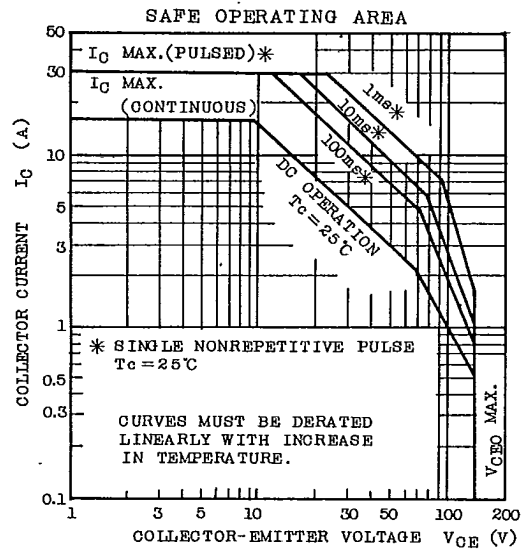
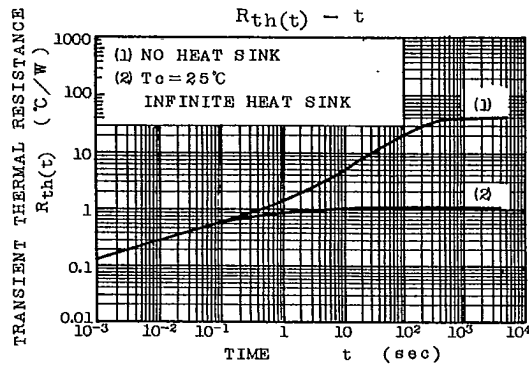
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