

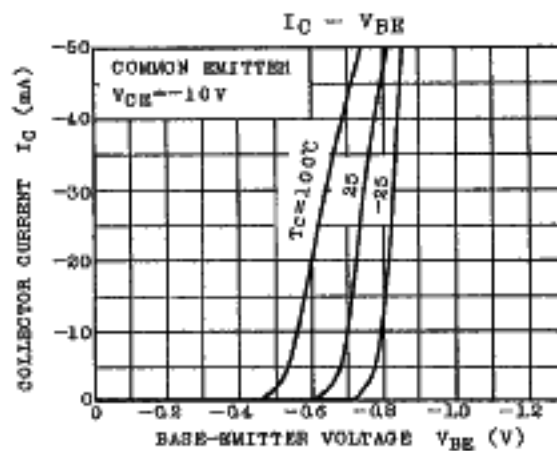
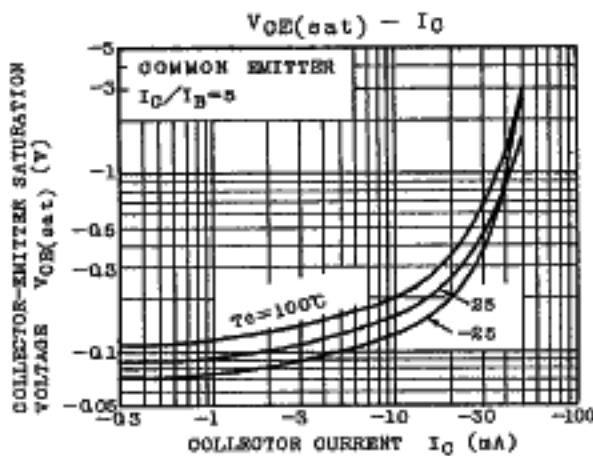
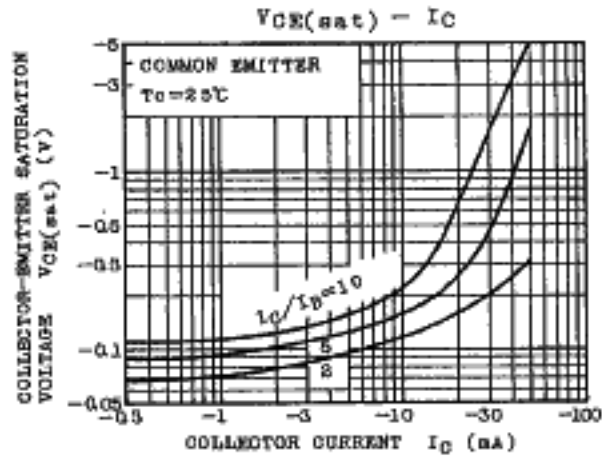
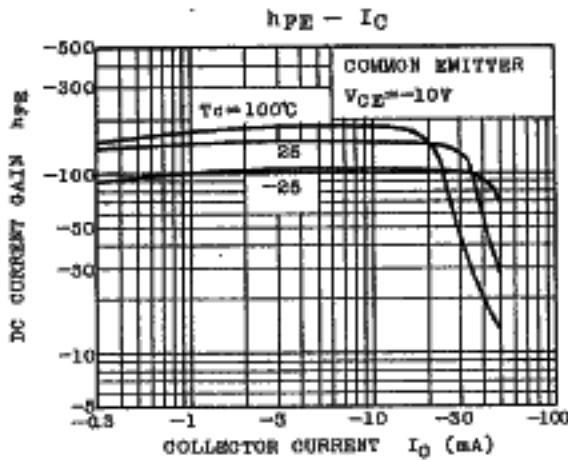
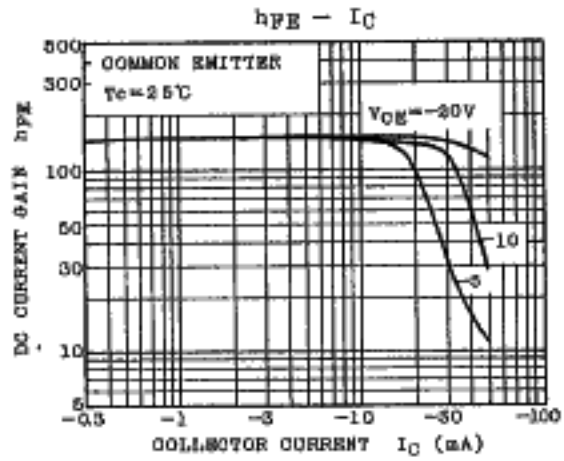
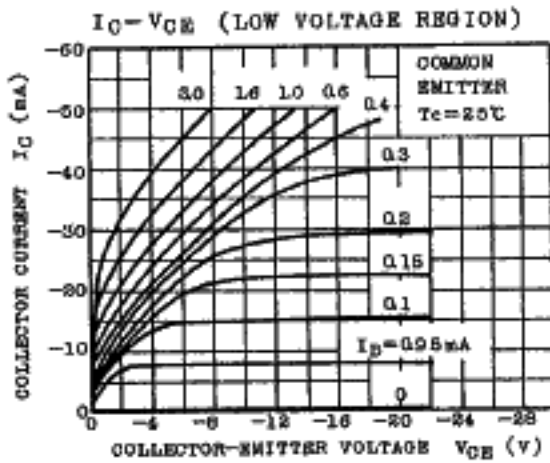


# TBF870 • TBF872

ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}\text{C}$  Unless otherwise specified)

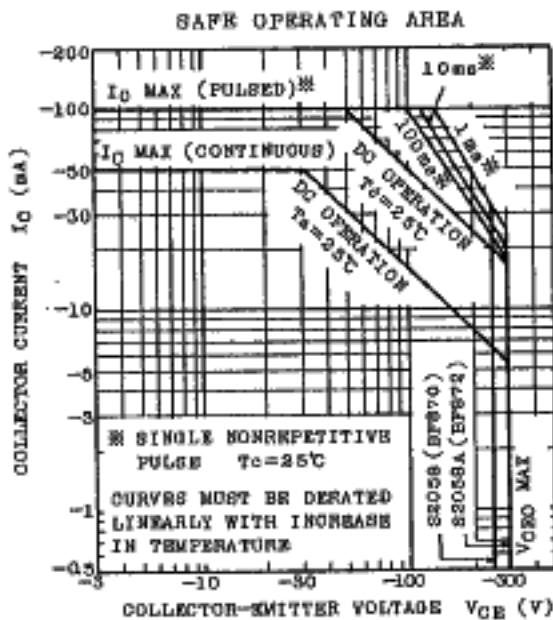
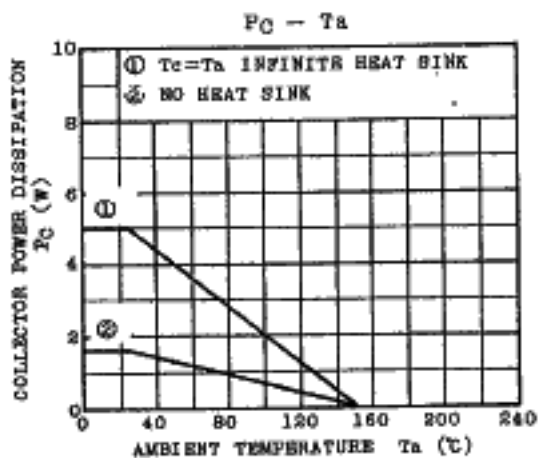
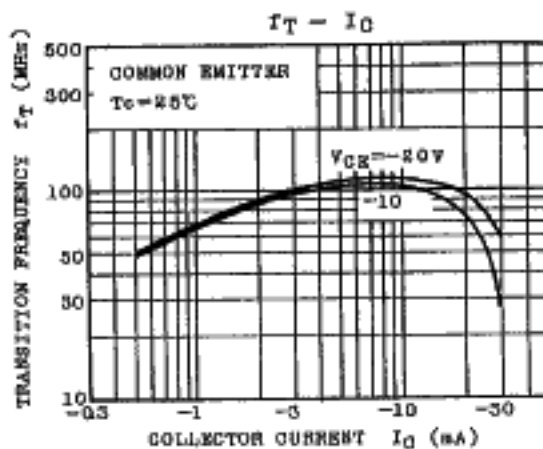
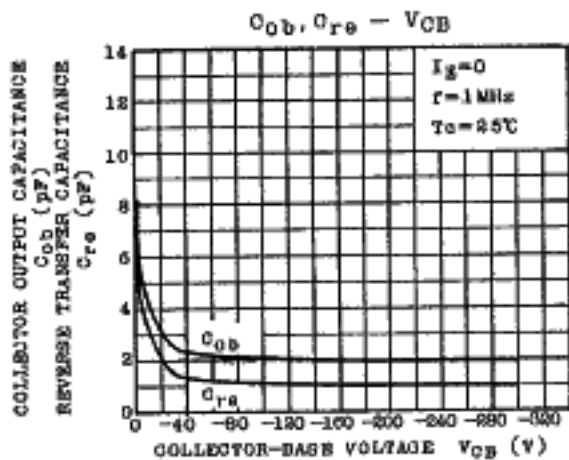
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	TBF870	$I_{CBO}$	$V_{CB}=-200\text{V}, I_E=0$	-	-	-0.1	$\mu\text{A}$
	TBF872	$I_{CER}$	$V_{CE}=-250\text{V}, R_{BE}=2.7\text{k}\Omega$	-	-	-0.05	
Emitter Cut-off Current		$I_{EBO}$	$V_{EB}=-5\text{V}, I_C=0$	-	-	-10	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	TBF870	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-250	-	-	V
	TBF872	$V_{(BR)CER}$	$I_C=-1\text{mA}, R_{BE}=2.7\text{k}\Omega$	-300	-	-	
High Temperature Collector Cut-off Current		$I_{CER}$	$V_{CE}=-200\text{V}, R_{BE}=2.7\text{k}\Omega$ $T_j=150^{\circ}\text{C}$	-	-	-10	$\mu\text{A}$
DC Current Gain		$h_{FE}$	$V_{CE}=-20\text{V}, I_C=-25\text{mA}$	50	-	-	
Collector-Emitter RF Saturation Voltage		$V_{CE(sat)RF}$	$I_C=-25\text{mA}, T_j=150^{\circ}\text{C}$	-	-20	-	V
Base-Emitter Voltage		$V_{BE}$	$V_{CE}=-20\text{V}, I_C=-25\text{mA}$	-	-0.75	-	V
Transition Frequency		$f_T$	$V_{CE}=-10\text{V}, I_C=-10\text{mA}$	60	80	-	MHz
Reverse Transfer Capacitance		$C_{re}$	$V_{CB}=-30\text{V}, I_E=0, f=1\text{MHz}$	-	1.7	2.0	pF

# TBF870 • TBF872



TOSHIBA CORPORATION

# TBF870 • TBF872



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