

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	-600	V
Collector-Emitter Voltage	V _{CEO}	-600	V
Emitter-Base Voltage	V _{EBO}	-7.0	V
Collector Power Dissipation	P _C	1.0	W
Collector Current (DC)	I _C	-1.0	A
Collector Current (Pulse)	I _{CP} (Note 1)	-2.0	A
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

Notes: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

1. PW ≤ 10ms, Duty Cycle ≤ 50%

■ ELECTRICAL CHARACTERISTICS (T_a=25°C, unless otherwise specified)

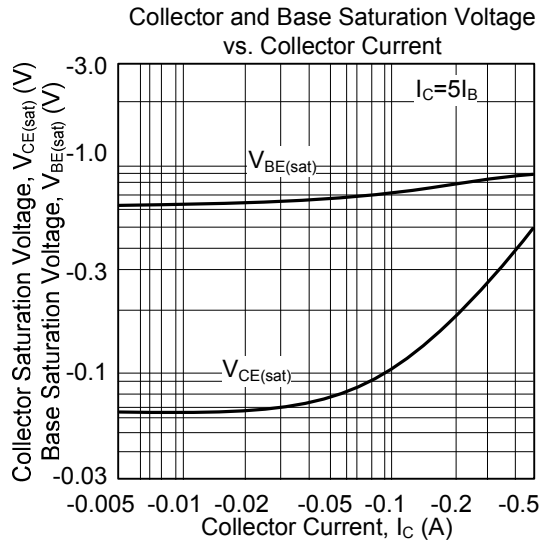
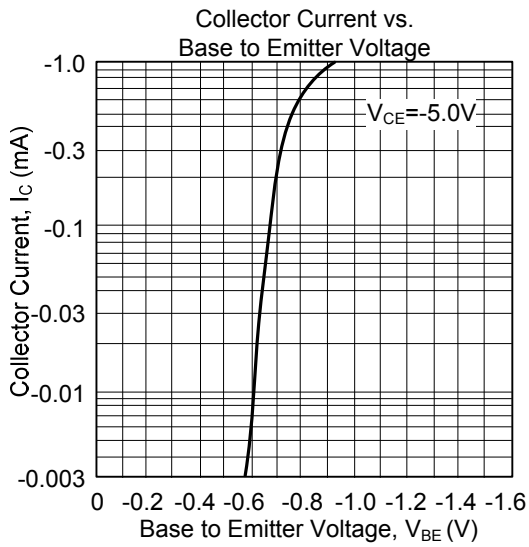
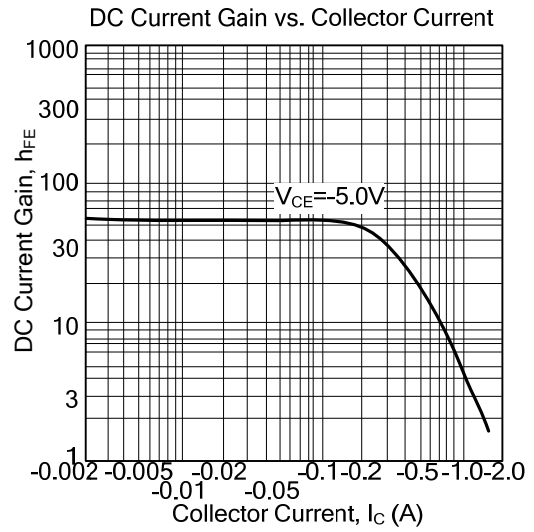
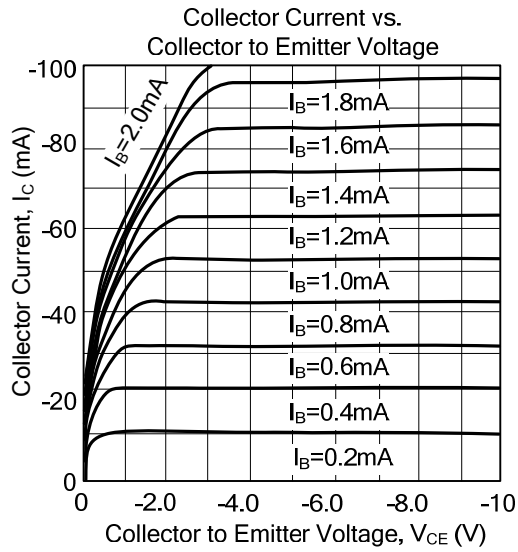
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I _{CBO}	V _{CB} = -600V, I _E =0			-10	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} = -7.0V, I _C =0			-10	μA
DC Current Gain	h _{FE1} (Note 2)	V _{CE} = -5.0V, I _C = -0.1A	30	58	120	
DC Current Gain	h _{FE2} (Note 2)	V _{CE} = -5.0V, I _C = -0.5A	4	19		
Collector-Emitter Saturation Voltage	V _{CE(sat)} (Note 2)	I _C = -0.3A, I _B = -0.06A		-0.28	-1.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)} (Note 2)	I _C = -0.3A, I _B = -0.06A		-0.85	-1.2	V
Gain Bandwidth Product	f _T	V _{CE} = -10V, I _E =0.1A	10	28		MHz
Output Capacitance	C _{ob}	V _{CB} = -10V, I _E =0, f=1.0MHz		42	50	pF
Turn-On Time	t _{on}	I _C =-0.5A, R _L =500Ω, I _{B1} = -I _{B2} = -0.1A, V _{CC} =-250V		0.1	0.5	μs
Storage Time	t _{stg}			3.5	5.0	μs
Fall Time	t _f			0.08	0.5	μs

Note: 2. Pulsed PW ≤ 350μs, Duty Cycle ≤ 2%

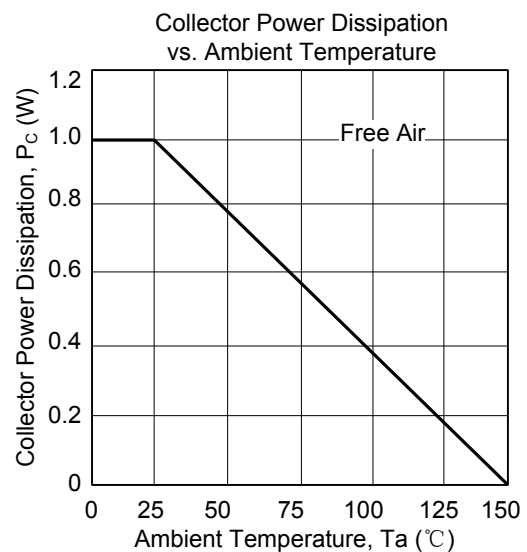
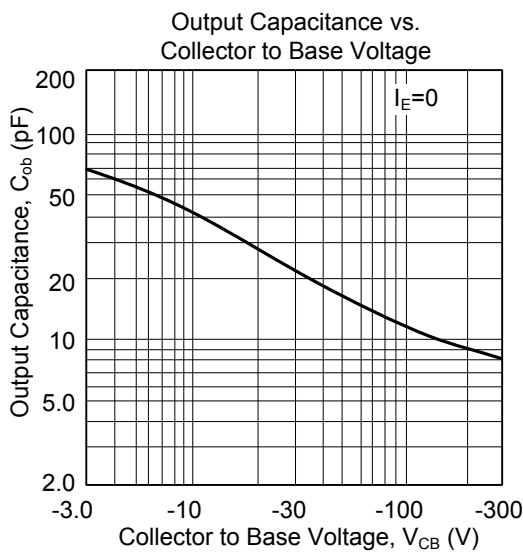
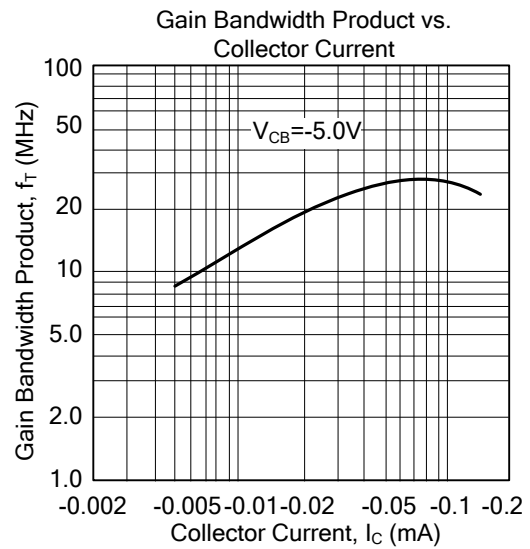
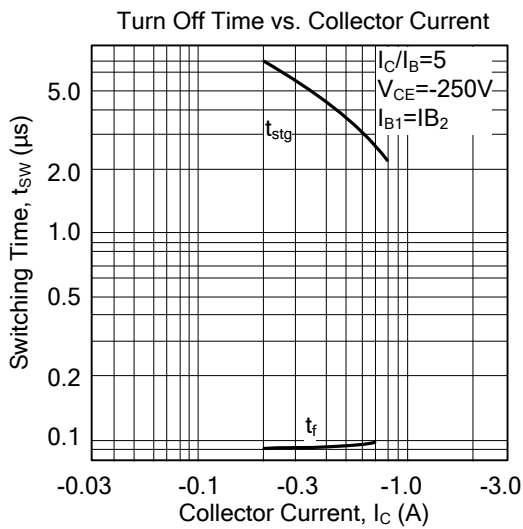
■ CLASSIFICATION OF h_{FE1}

RANK	M	L	K
RANGE	30-60	40-80	60-120

■ TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS(Cont.)



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.