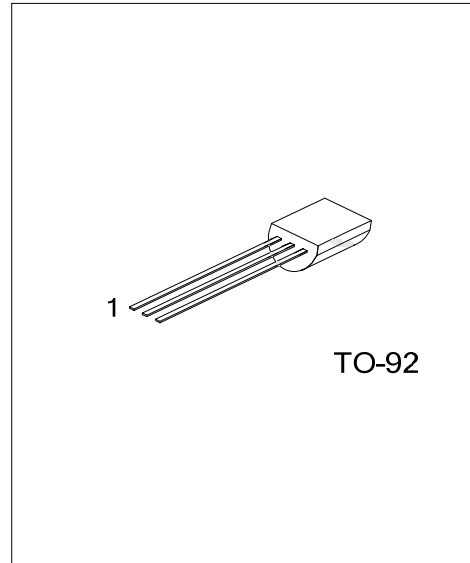




2SC1815

NPN SILICON TRANSISTOR

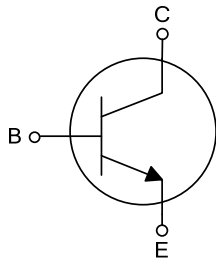
AUDIO FREQUENCY
AMPLIFIER HIGH
FREQUENCY OSC NPN
TRANSISTOR



FEATURES

- * Collector-Emitter voltage:
 $BV_{CEO}=50V$
- * Collector current up to 150mA
- * High h_{FE} linearity
- * Complimentary to UTC 2SA1015

SYMBOL



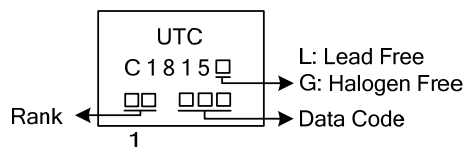
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC1815L-xx-T92-B	2SC1815G-xx-T92-B	TO-92	E	C	B	Tape Box
2SC1815L-xx-T92-K	2SC1815G-xx-T92-K	TO-92	E	C	B	Bulk

Note: Pin Assignment: E: Emitter C: Collector B: Base

<p>2SC1815L-xx-T92-B</p> <p>(1) Packing Type (2) Package Type (3) Rank (4) Green Package</p>	<p>(1) B: Tape Box, K: Bulk (2) T92: TO-92 (3) xx: Refer to Classification of h_{FE1} (4) L: Lead Free, G: Halogen Free and Lead Free</p>
--	--

MARKING



■ ABSOLUTE MAXIMUM RATING ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	60	V
Collector-emitter voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	150	mA
Base Current	I_B	50	mA
Power Dissipation ($T_A=25^\circ\text{C}$)	P_D	625	mW
Junction Temperature	T_J	+125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +125	$^\circ\text{C}$

Note: 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.

■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	θ_{JC}	80	$^\circ\text{C/W}$

■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=60\text{V}, I_E=0$			100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$			100	nA
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=100\text{mA}, I_B=10\text{mA}$		0.1	0.25	V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=100\text{mA}, I_B=10\text{mA}$			1.0	V
DC Current Gain	h_{FE1}	$V_{CE}=6\text{V}, I_C=2\text{mA}$	70		700	
	h_{FE2}	$V_{CE}=6\text{V}, I_C=150\text{mA}$	25			
Current Gain Bandwidth Product	f_T	$V_{CE}=10\text{V}, I_C=50\text{mA}$	80			MHz
Output Capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$		2.0	3.0	pF

■ CLASSIFICATION OF h_{FE1}

RANK	O	Y	GR	BL
RANGE	70~140	120~240	200~400	350~700

■ TYPICAL CHARACTERISTICS

Fig.1 Static characteristics

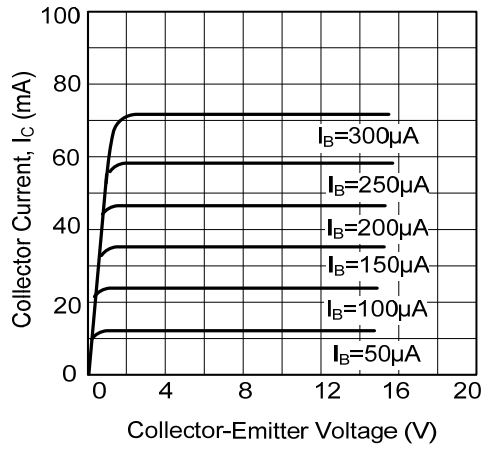


Fig.2 DC current Gain

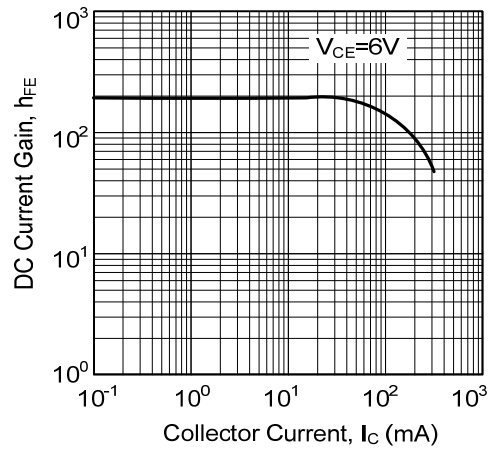


Fig.3 Base-Emitter on Voltage

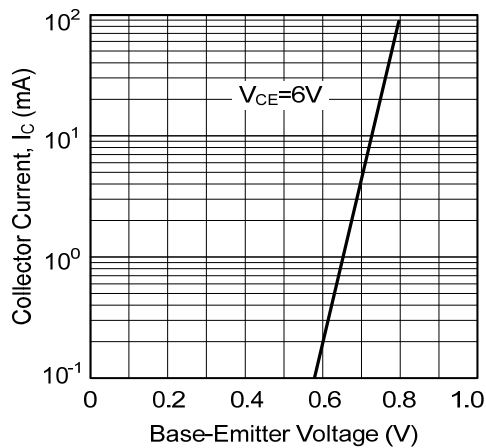


Fig.4 Saturation Voltage

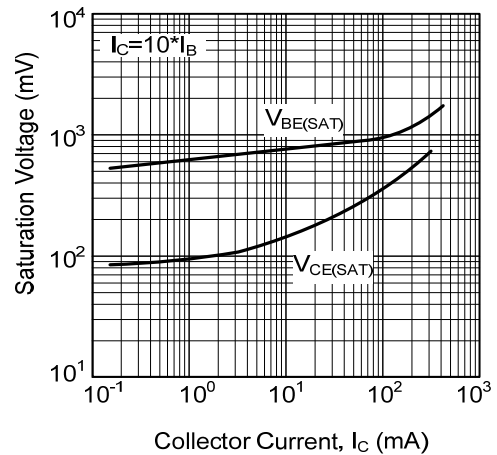


Fig.5 Current Gain-Bandwidth Product

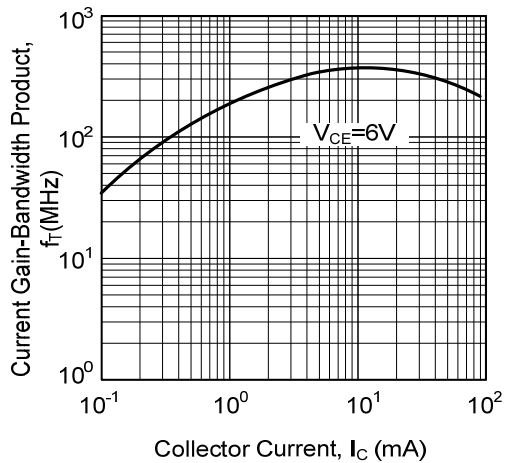
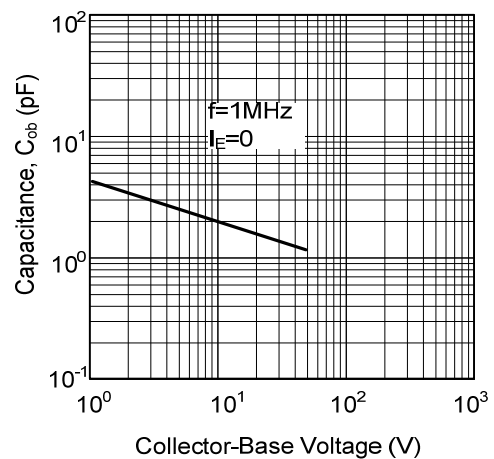
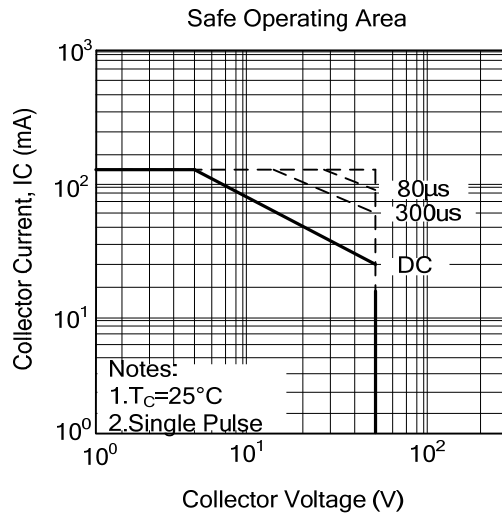


Fig.6 Collector Output Capacitance



■ TYPICAL CHARACTERISTICS(Cont.)



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[11NM65L-TA3-T](#) [11NM70G-TN3-R](#) [12N60L-TF2-T](#) [12N65KL-MTTO](#) [12N65KL-TF1-T](#) [12N65L-TF1-T](#) [12N65L-TF1-TML\)](#) [12N70L-](#)
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[TF1-T](#) [24NM65G-TF1-T](#) [2N40G-CB-AB3-R](#) [2N5401G-B-T92-B](#) [2N5551G-B-AB3-R](#) [2N5551L-B-T92-B](#) [2N5551L-B-T92-K](#) [2N6027G-](#)
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