



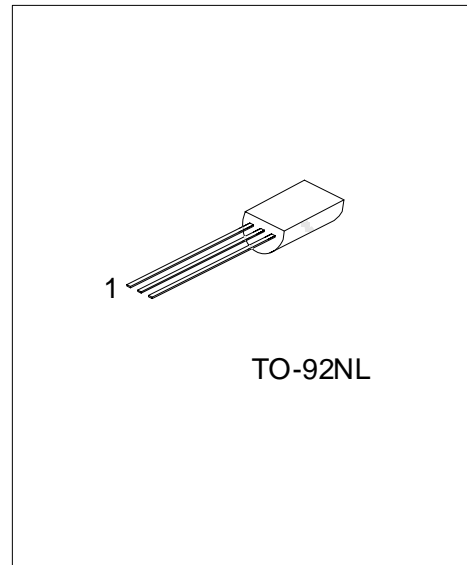
2SC2655

NPN SILICON TRANSISTOR

POWER AMPLIFIER APPLICATIONS
POWER SWITCHING APPLICATIONS

■ FEATURES

- *Low saturation voltage
 $V_{CE(SAT)} = 0.5V$ (Max.)
- *High speed switching time
 $t_{stg} = 1.0\mu s$ (Typ.)



*Pb-free plating product number: 2SC2655L

■ ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
2SC2655-x-T9N-B	2SC2655L-x-T9N-B	TO-92NL	E	C	B	Tape Box
2SC2655-x-T9N-K	2SC2655L-x-T9N-K	TO-92NL	E	C	B	Bulk
2SC2655-x-T9N-R	2SC2655L-x-T9N-R	TO-92NL	E	C	B	Tape Reel

<p>2C2655L-x-T9N-K</p> <p>(1) Packing Type (2) Package Type (3) Rank (4) Lead Plating</p>	<p>(1) B: Tape Box, K: Bulk, R: Tape Reel (2) T9N: TO-92NL (3) refer to Classification of $h_{FE(1)}$ (4) L: Lead Free Plating, Blank: Pb/Sn</p>
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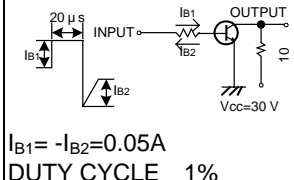
■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C ,unless otherwise specified)

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	2	A
Collector Current(Pulse)	I_{cp}^*	3	A
Base Current	I_B	0.5	A
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

Note: * PW 16ms, Duty Cycle 50%.

1. 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.

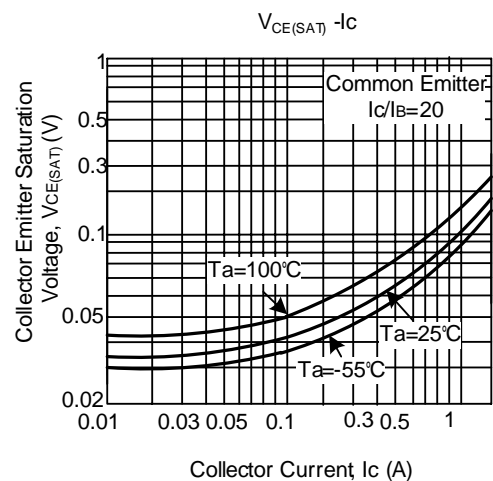
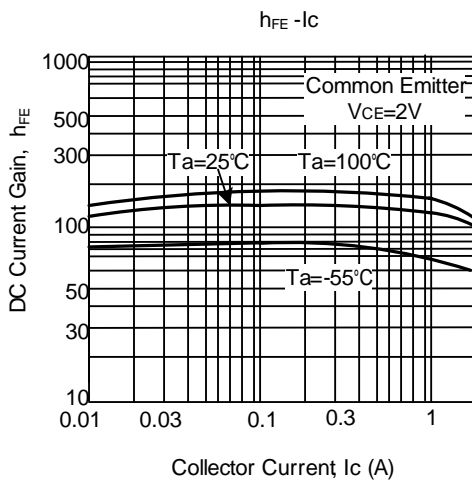
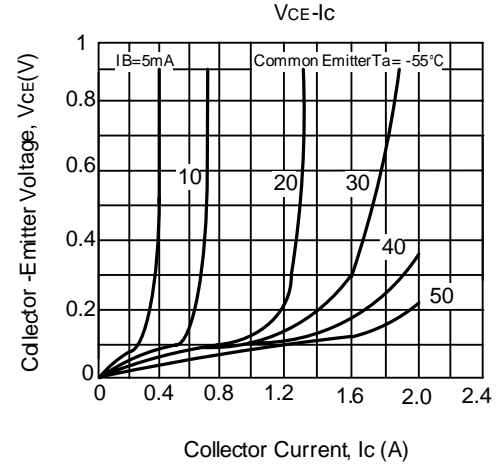
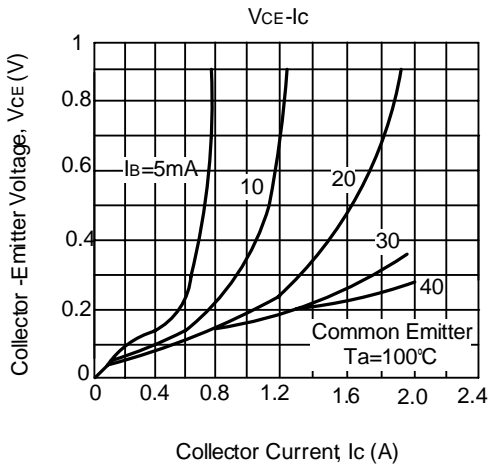
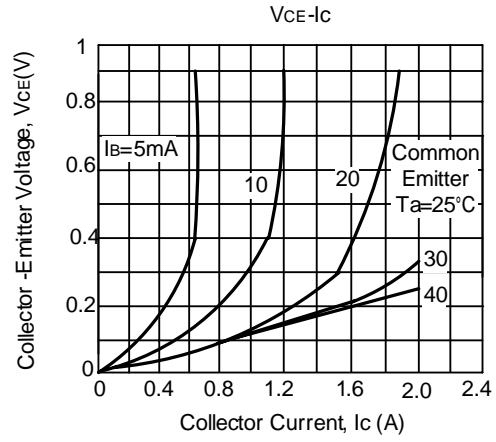
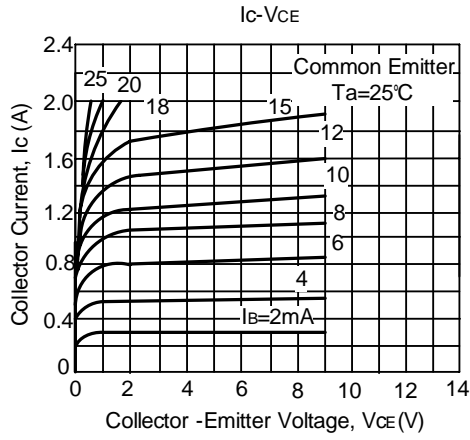
■ ELECTRICAL CHARACTERISTICS(Ta=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Emitter Breakdown Voltage	BV_{CEO}	$I_C=10mA, I_B=0$	50			V
Collector Cut-off Current	I_{CBO}	$V_{CB}=50V, I_E=0$			1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$			1.0	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=2V, I_C=0.5A$	70		240	
	$h_{FE(2)}$	$V_{CE}=2V, I_C=1.5A$	40			
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=1A, I_B=0.05A$			0.5	V
Base- Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=1A, I_B=0.05A$			1.2	V
Transition Frequency	f_T	$V_{CE}=2V, I_C=0.5A$		100		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$		30		pF
Switching Time(Turn-on Time)	t_{ON}	 <p>$I_{B1} = -I_{B2} = 0.05A$ DUTY CYCLE 1%</p>		0.1		μS

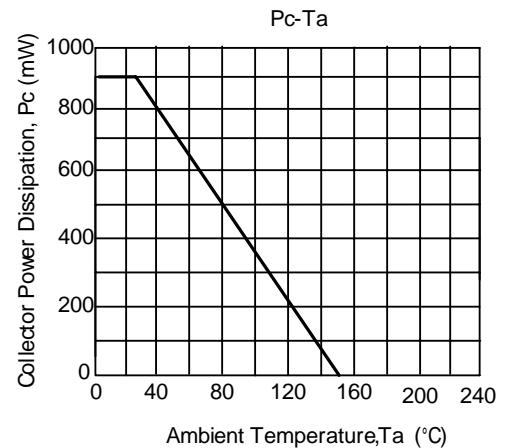
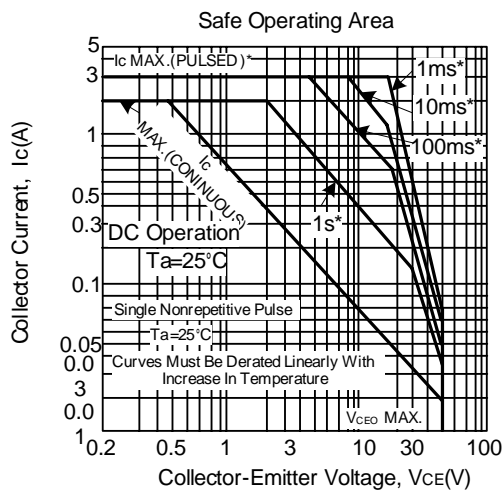
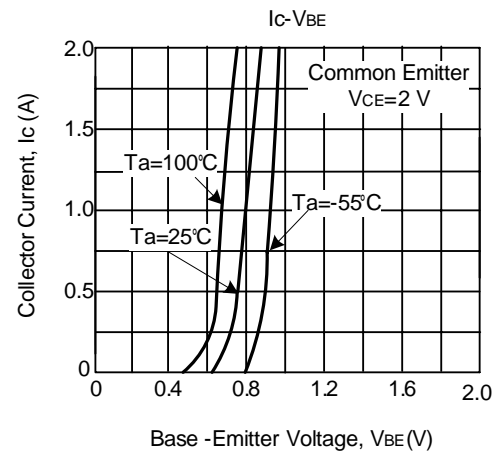
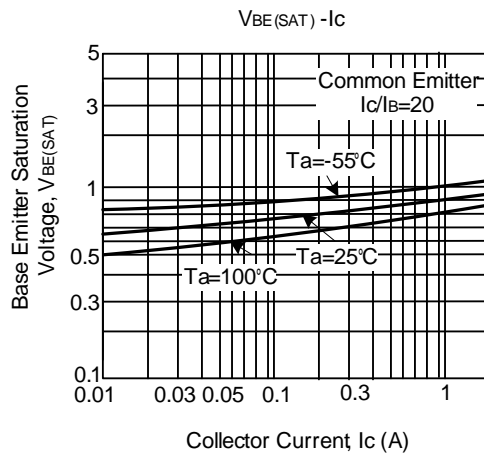
■ CLASSIFICATION OF $h_{FE(1)}$

RANK	O	Y
RANGE	70-140	120-240

TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS(Cont.)



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