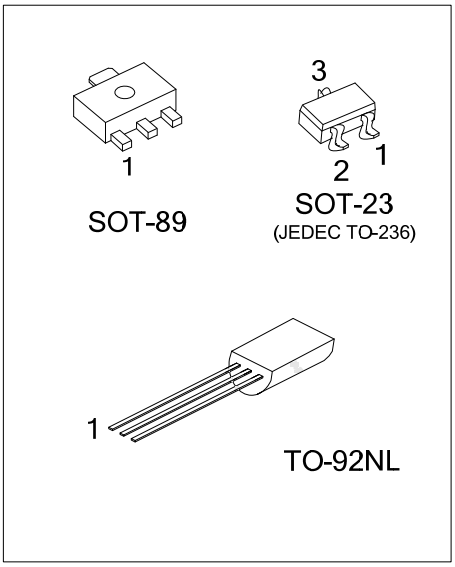
2SC2655

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}=1.0μs (Typ.)

■ ORDERING INFORMATION

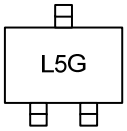
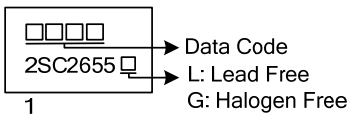
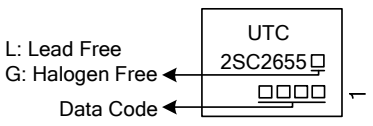
Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
-	2SC2655Gx-AB3-R	SOT-89	B	C	E	Tape Reel
-	2SC2655Gx-AE3-R	SOT-23	E	B	C	Tape Reel
2SC2655L-x-T9N-B	2SC2655Gx-T9N-B	TO-92NL	E	C	B	Tape Box
2SC2655L-x-T9N-K	2SC2655Gx-T9N-K	TO-92NL	E	C	B	Bulk

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

2C2655G-x-AB3-R

(1)Packing Type	(1) B: Tape Box, K: Bulk, R: Tape Reel
(2)Package Type	(2) AB3: SOT-89, AE3: SOT-23, T9N: TO-92NL
(3)Rank	(3) refer to Classification of h_{FE1}
(4)Green Package	(4) G: Halogen Free and Lead Free, L: Lead Free

■ MARKING

SOT-23	SOT-89	TO-92NL
		

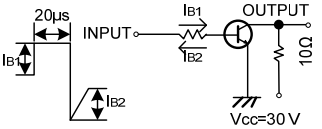
■ ABSOLUTE MAXIMUM RATINGS (T_A= 25°C, unless otherwise specified)

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) (Note 1)		I_{CP}	3	A
Base Current		I_B	0.5	A
Collector Power Dissipation	SOT-23	P_C	350	mW
	SOT-89		500	
	TO-92NL		900	
Junction Temperature		T_J	150	°C
Storage Temperature		T_{STG}	-55 ~ +150	°C

Notes: 1. $P_W \leqq 16$ms, Duty Cycle $\leqq 50\%$.

2. 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 (T_A= 25°C, unless otherwise specified)

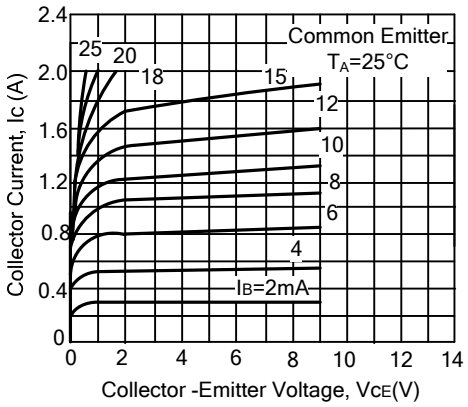
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector to Base Breakdown Voltage	BV_{CBO}	I_C= 10μA, I_E= 0	50			V
Collector to Emitter Breakdown Voltage	BV_{CEO}	I_C= 10mA, I_B= 0	50			V
Emitter to Base Breakdown Voltage	BV_{EBO}	I_E= 10μA, I_C= 0	5			V
Collector Cut-off Current	I_{CBO}	V_{CB}=50V, 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_{FE1}	V_{CE}=2V, I_C=0.5A	70		240	
	h_{FE2}	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}	 I_{B1}= -I_{B2}=0.05A DUTY CYCLE $\leqq$ 1%		0.1		μS

■ CLASSIFICATION OF h_{FE1}

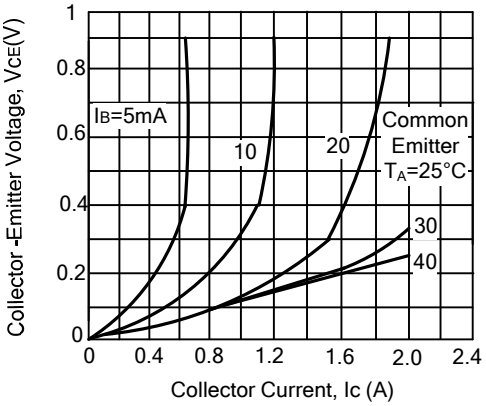
RANK	O	Y
RANGE	70-140	120-240

■ TYPICAL CHARACTERISTICS

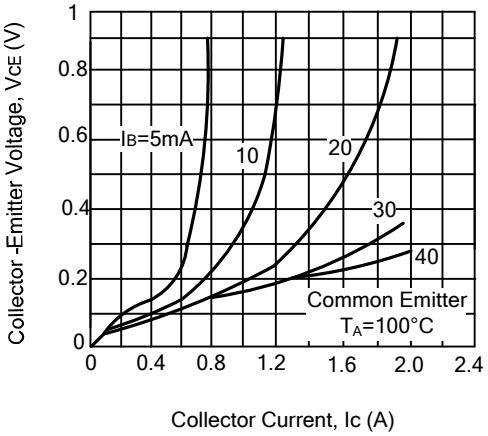
Ic-VCE



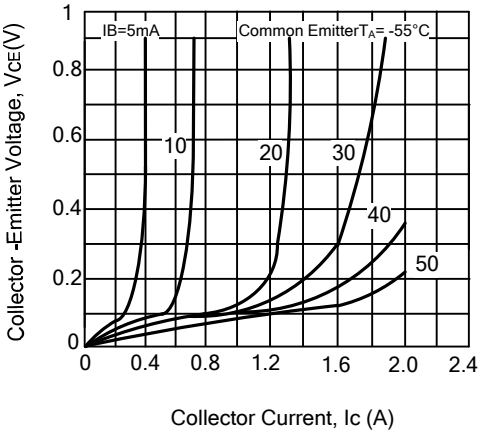
VCE-Ic



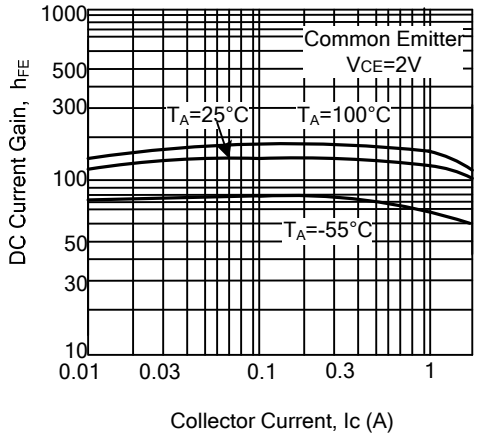
VCE-Ic



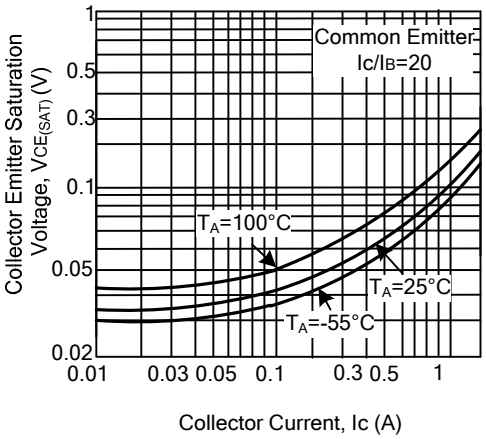
VCE-Ic



hFE -Ic

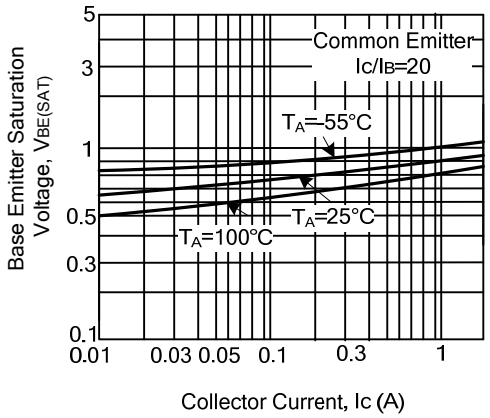


VCE(SAT) -Ic

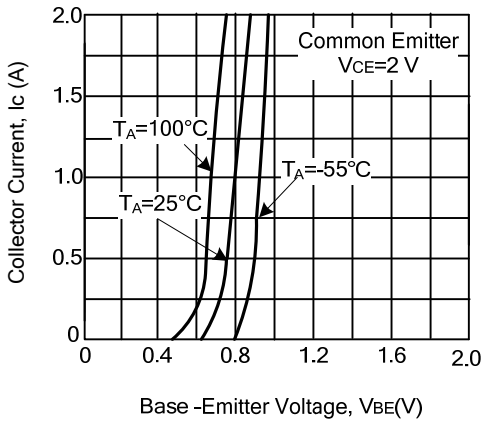


■ TYPICAL CHARACTERISTICS(Cont.)

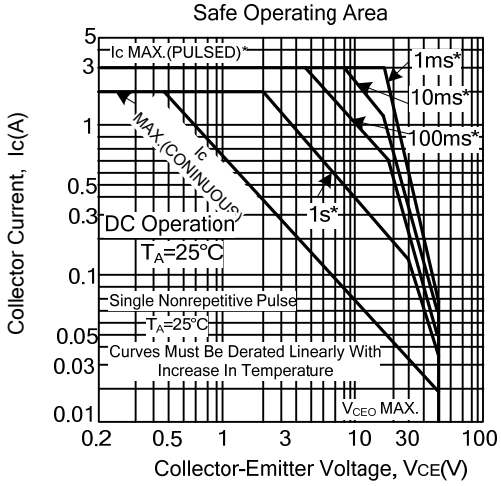
$V_{BE(SAT)}$ -Ic



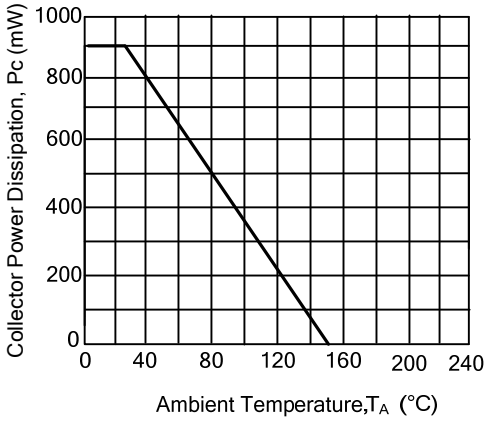
Ic-V_{BE}



Safe Operating Area



Pc-Ta



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