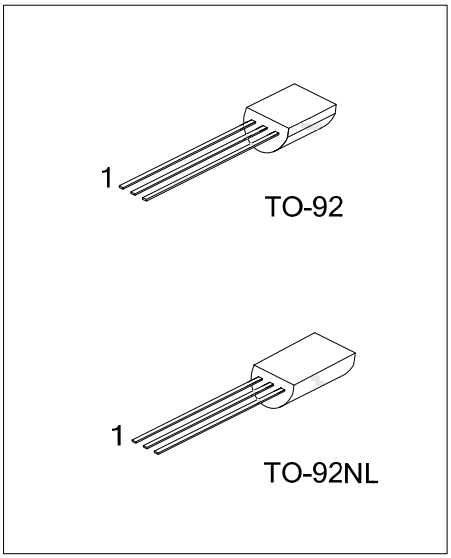
2SC2482

NPN EPITAXIAL SILICON TRANSISTOR

NPN EPITAXIAL PLANAR TRANSISTOR



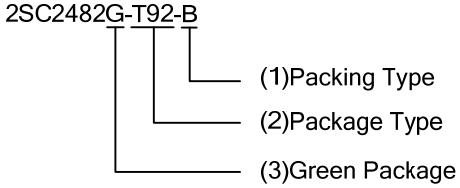
■ FEATURES

* High Voltage : $V_{(BR)CEO}$= 300V
* Small Collector Output Capacitance: C_{ob}=3.0pF(Typ.)

■ ORDERING INFORMATION

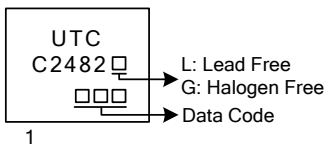
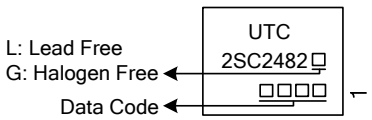
Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC2482L-T92-B	2SC2482G-T92-B	TO-92	E	C	B	Tape Box
2SC2482L-T92-K	2SC2482G-T92-K	TO-92	E	C	B	Bulk
2SC2482L-T9N-B	2SC2482G-T9N-B	TO-92NL	E	C	B	Tape Box
2SC2482L-T9N-K	2SC2482G-T9N-K	TO-92NL	E	C	B	Bulk

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



(1) B: Tape Box, K: Bulk
(2) T92: TO-92, T9N: TO-92NL
(3) G: Halogen Free and Lead Free, L: Lead Free

■ MARKING

TO-92	TO-92NL
	

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

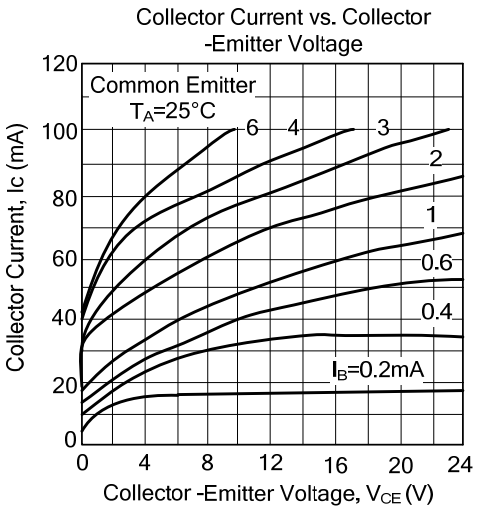
PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	300	V
Collector-Emitter Voltage	V_{CEO}	300	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_C	100	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_J	+150	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

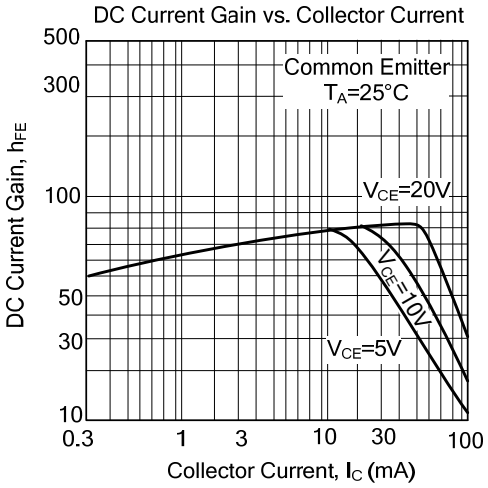
Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

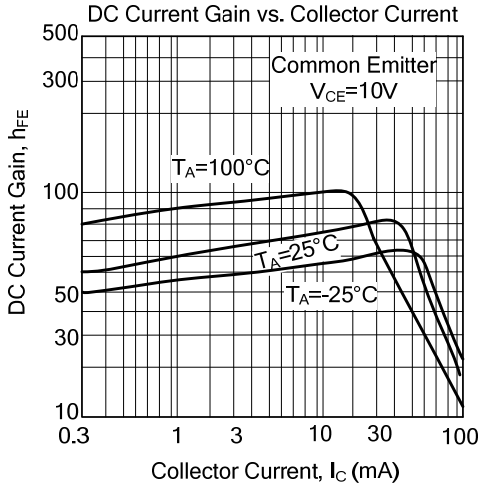
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

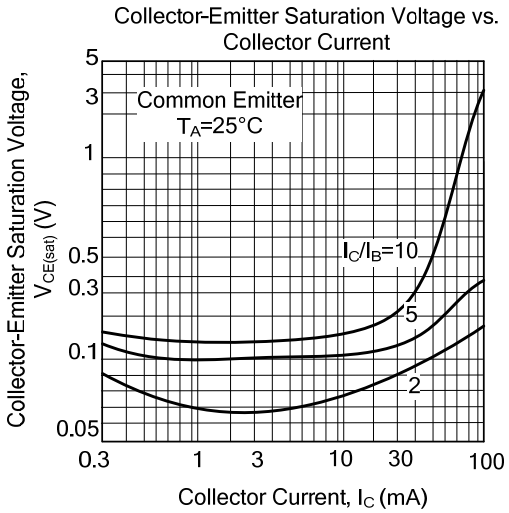
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I_{CBO}	V_{CB}=240V, I_E= 0			1.0	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}= 7V, Ic=0			1.0	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=10V, Ic=4mA	20			
	$h_{FE(2)}$	V_{CE}=10V, Ic=20mA	30		150	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	Ic=10mA, I_B=1mA			1.0	V
Base- Emitter Saturation Voltage	$V_{BE(sat)}$	Ic=10mA , I_B=1mA			1.0	V
Transition Frequency	f_T	V_{CE}=10V, Ic=20mA	50			MHz
Collector Output Capacitance	C_{ob}	V_{CB}=20V, I_E= 0, f=1MHz		3.0		pF

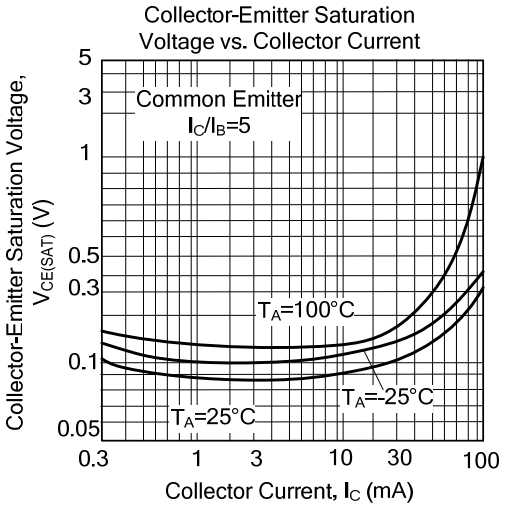
■ TYPICAL CHARACTERISTICS

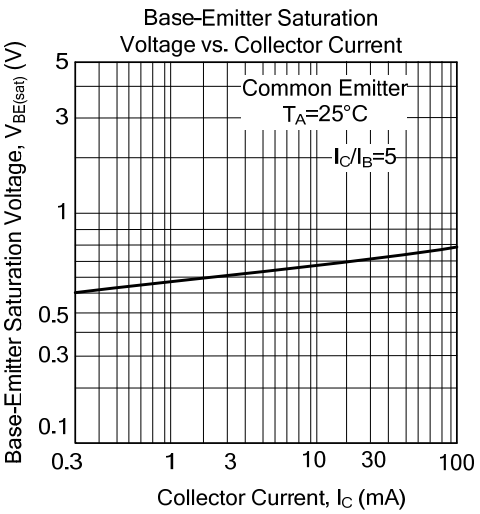






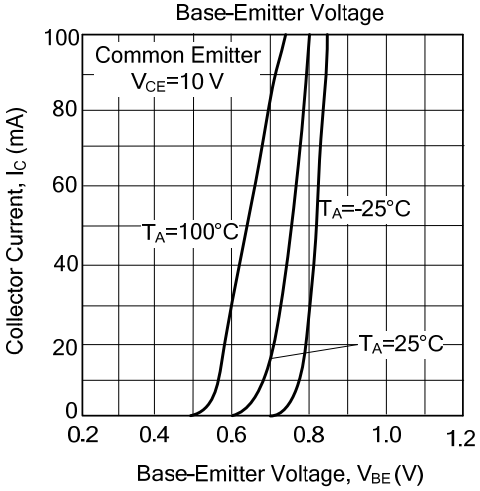




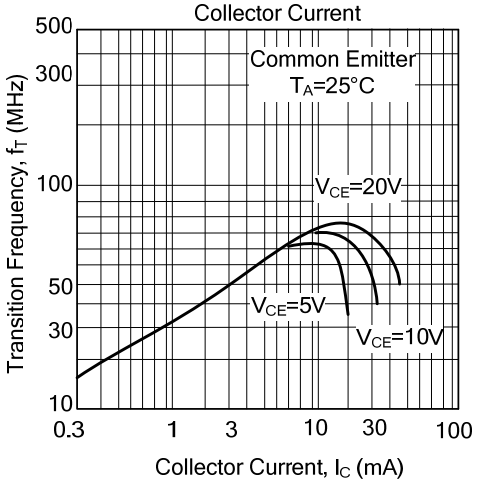


■ TYPICAL CHARACTERISTICS (Cont.)

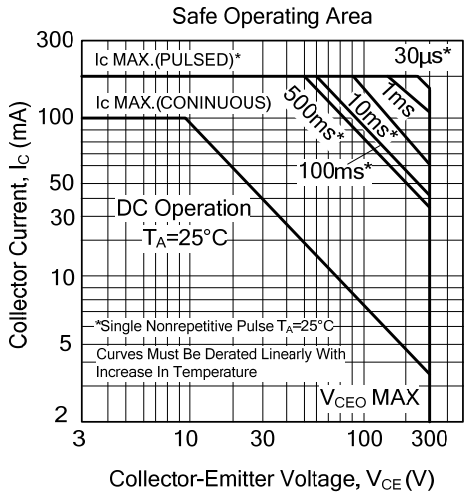
Collector Current vs. Base-Emitter Voltage



Transition Frequency vs. Collector Current



Safe Operating Area



Collector Output Capacitance vs. Collector-Base Voltage