

UTC2SC2482

NPN EPITAXIAL SILICON TRANSISTOR

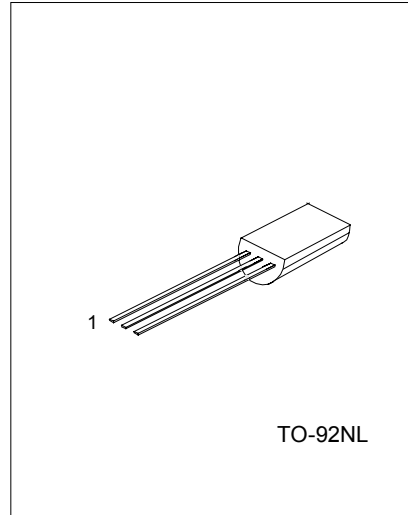
NPN EPITAXIAL PLANAR TRANSISTOR

APPLICATIONS

- *HIGH VOLTAGE SWITCHING AND AMPLIFIER APPLICATIONS
- *COLOR TV HORIZ. DRIVER APPLICATIONS
- *COLOR TV CHROMA OUTPUT APPLICATIONS

FEATURES

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



1:EMITTER 2:COLLECTOR 3:BASE

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^{\circ}C$)

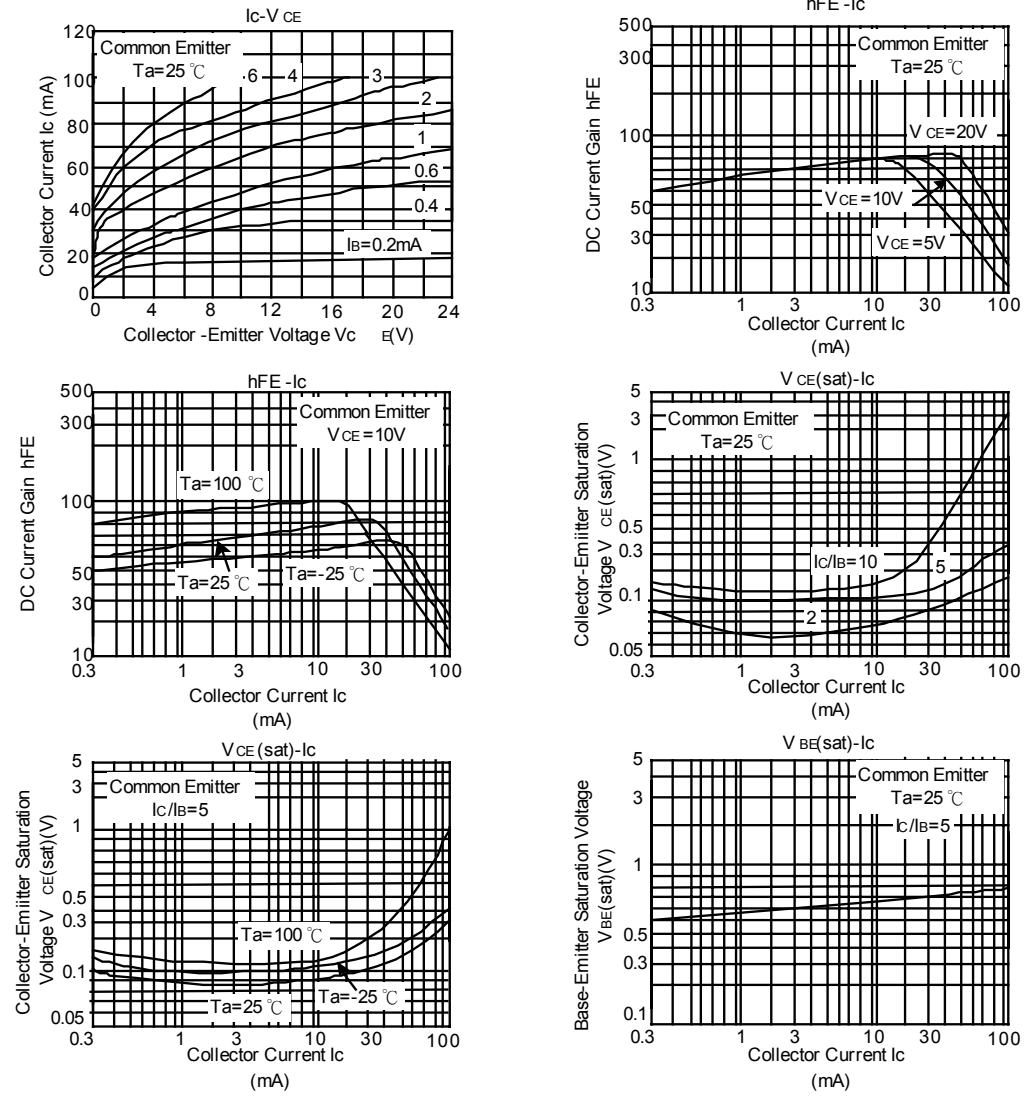
PARAMETER	SYMBOL	LIMITS	UNIT
Collector-Base Voltage	V_{CB0}	300	V
Collector-Emitter Voltage	V_{CE0}	300	V
Emitter-Base Voltage	V_{EB0}	7	V
Collector Current	I_c	100	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_c	900	mW
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}C$

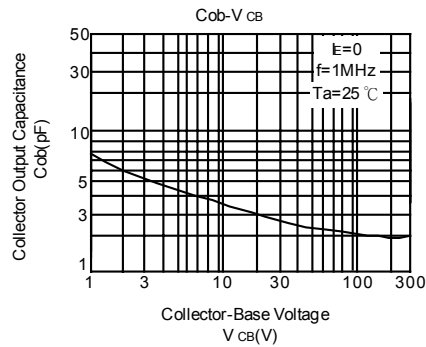
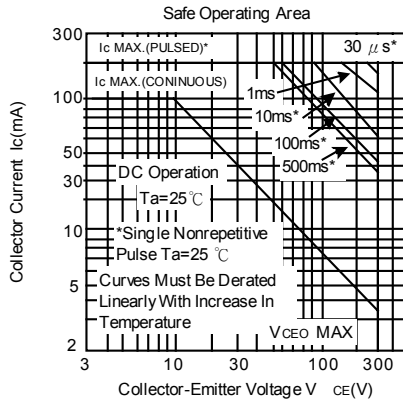
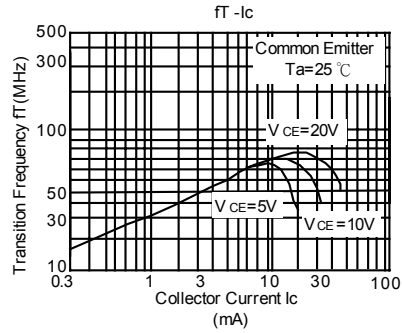
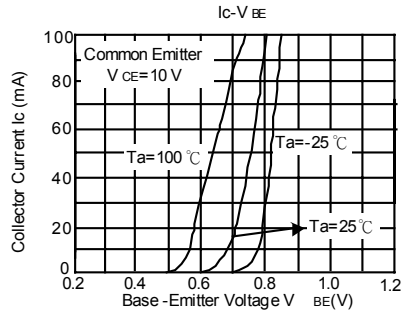
ELECTRICAL CHARACTERISTICS ($T_a = 25^{\circ}C$, unless otherwise specified)

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}	$V_{EB} = 7V, I_c = 0$			1.0	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 10V, I_c = 4mA$	20			
	$h_{FE(2)}$	$V_{CE} = 10V, I_c = 20mA$	30		150	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_c = 10mA, I_B = 1mA$			1.0	V
Base- Emitter Saturation Voltage	$V_{BE(sat)}$	$I_c = 10mA, I_B = 1mA$			1.0	V
Transition Frequency	f_T	$V_{CE} = 10V, I_c = 20mA$	50			MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 20V, I_E = 0, f = 1MHz$		3.0		pF

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ELECTRICAL CHARACTERISTICS CURVES





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