

UTC2SC2482

NPN EPITAXIAL SILICON TRANSISTOR

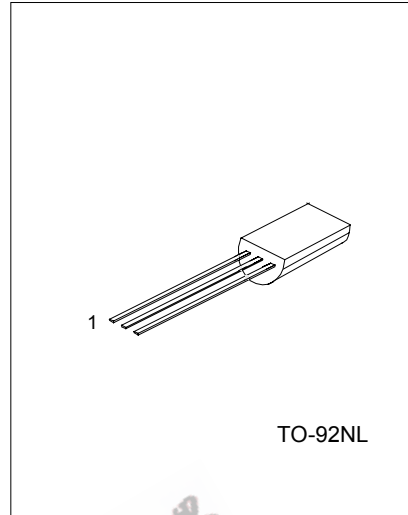
NPN EPITAXIAL PLANAR TRANSISTOR

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: Cob=3.0pF(Typ.)



1:EMITTER 2:COLLECTOR 3:BASE

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

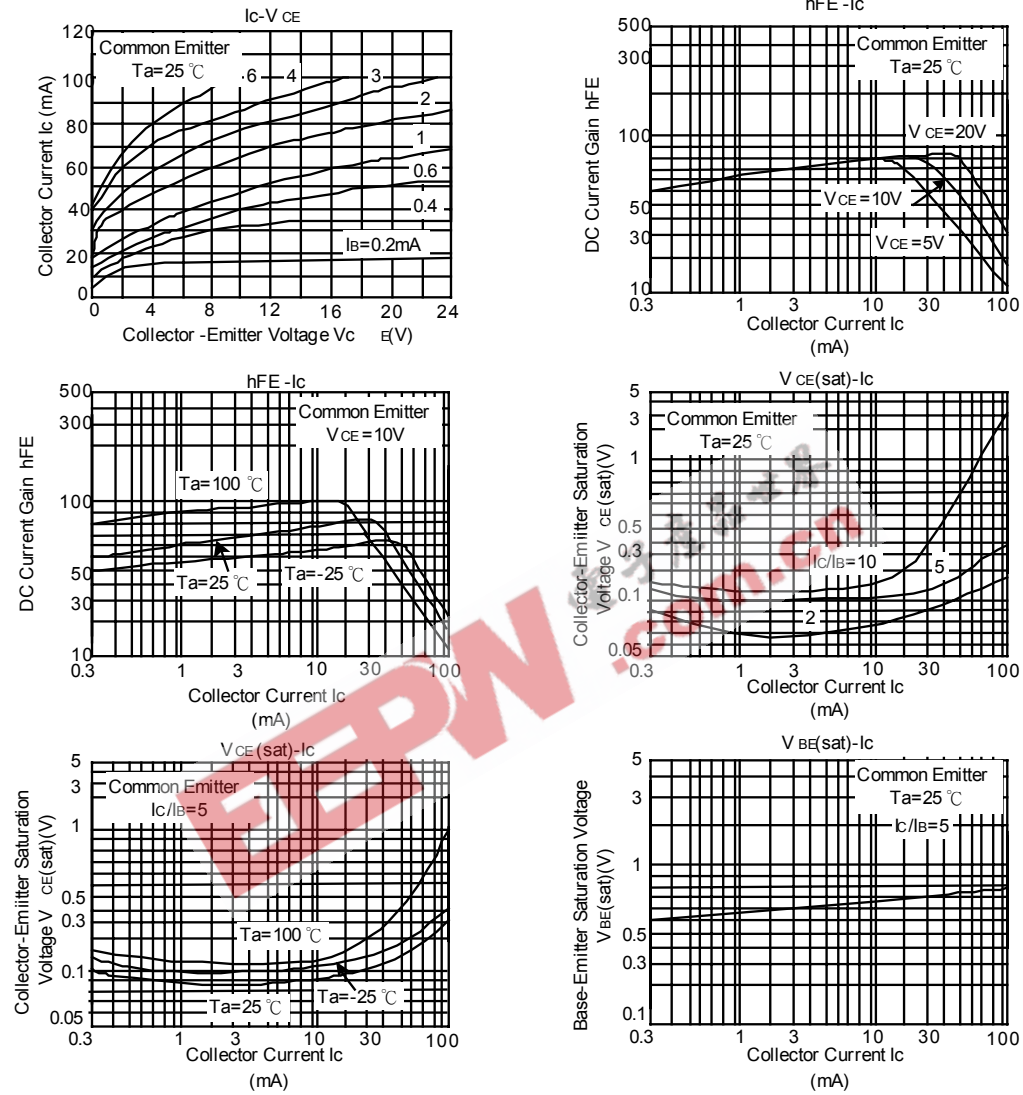
PARAMETER	SYMBOL	LIMITS	UNIT
Collector-Base Voltage	V _{CB0}	300	V
Collector-Emitter Voltage	V _{CEO}	300	V
Emitter-Base Voltage	V _{EB0}	7	V
Collector Current	I _c	100	mA
Base Current	I _b	50	mA
Collector Power Dissipation	P _c	900	mW
Junction Temperature	T _j	150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

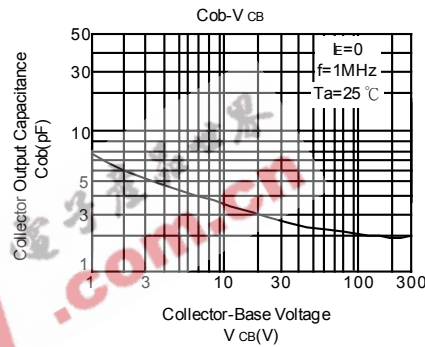
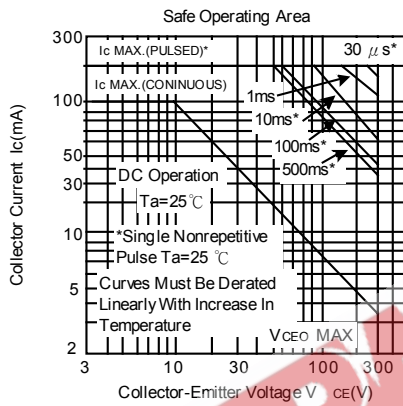
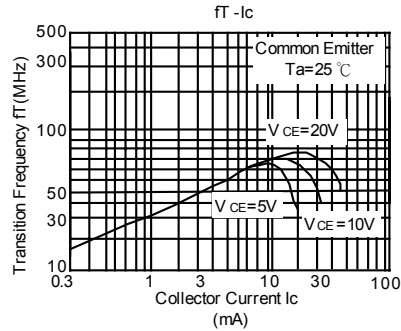
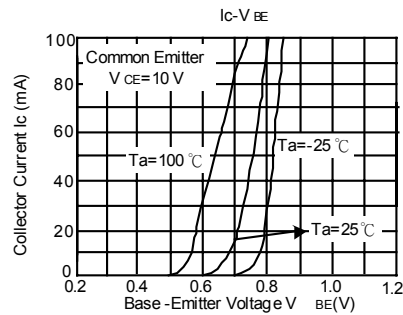
ELECTRICAL CHARACTERISTICS (Ta=25°C, unless otherwise specified)

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 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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