

UTC2SC5765

NPN EPITAXIAL SILICON TRANSISTOR

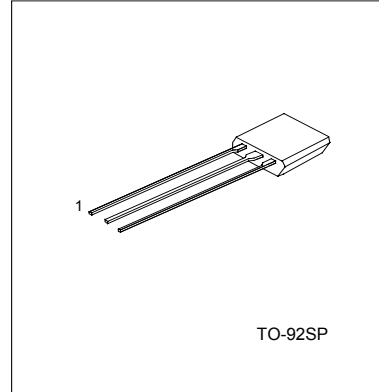
MEDIUM POWER AMPLIFIER STROBO FLASH

DESCRIPTION

- * medium power amplifier applications
- * strobo flash applications

FEATURES

*Low Saturation Voltage: $V_{CE(sat)} = 0.27 \text{ V (max.)}$,
($I_c = 3 \text{ A} / I_B = 60 \text{ mA}$)



TO-92SP

1.EMITTER 2.COLLECTOR 3.BASE

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

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	15	V
Collector-Emitter Voltage	V_{CEO}	10	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_c	5(DC)	A
		9(PULSED)	A
Collector Power Dissipation	P_c (Note 1)	550	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 ~ +150	$^\circ\text{C}$

Note 1: When a device is mounted on a glass epoxy board (35 mm*30 mm*1mm)

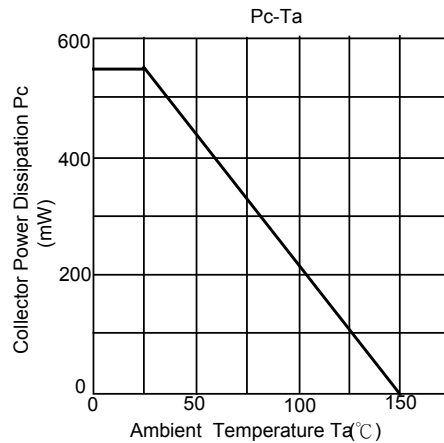
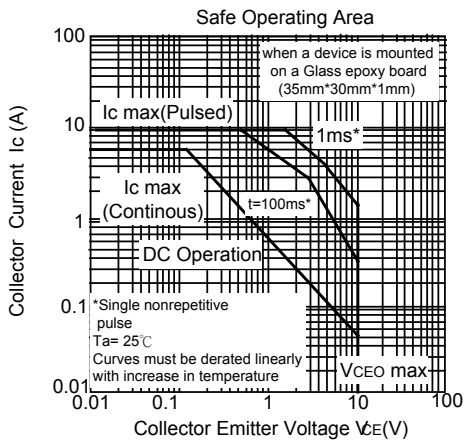
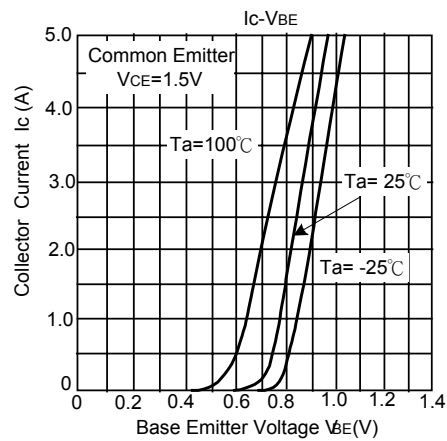
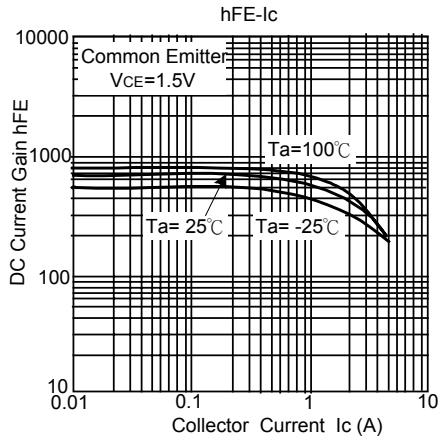
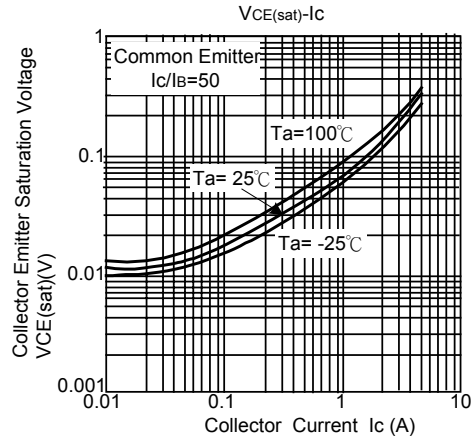
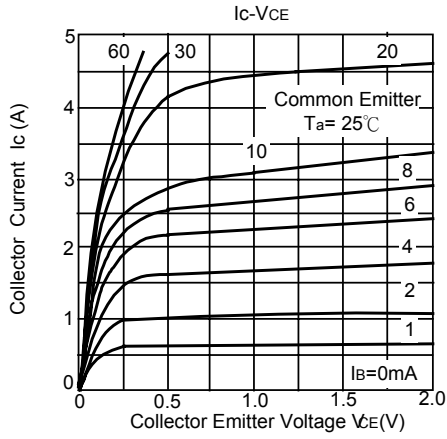
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$, unless otherwise specified)

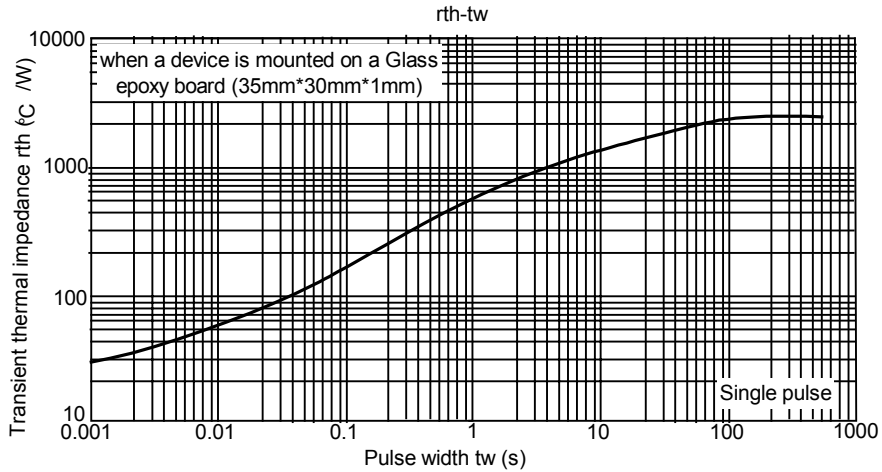
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_c = 1 \text{ mA}, I_B = 0$	10			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = 15 \text{ V}, I_E = 0$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = 5 \text{ V}, I_c = 0$			0.1	μA
DC Current Gain	h_{FE1} (Note 2)	$V_{CE} = 1.5 \text{ V}, I_c = 0.5 \text{ A}$	450		700	
	h_{FE2} (Note 2)	$V_{CE} = 1.5 \text{ V}, I_c = 2 \text{ A}$	320			
	h_{FE3} (Note 2)	$V_{CE} = 1.5 \text{ V}, I_c = 5 \text{ A}$	170			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$ (note 2)	$I_c = 3 \text{ A}, I_B = 60 \text{ mA}$			0.27	V
Collector Output Capacitance	C_{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		25		pF

Note 2: Pulse test

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ELECTRICAL CHARACTERISTICS CURVES





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