



2SC5765

NPN EPITAXIAL SILICON TRANSISTOR

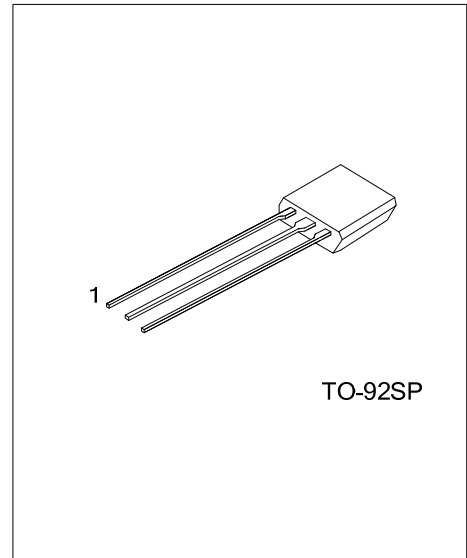
MEDIUM POWER AMPLIFIER STROBO FLASH

DESCRIPTION

medium power amplifier applications
strobo flash applications

FEATURES

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



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC5765L-T9S-K	2SC5765G-T9S-K	TO-92SP	E	C	B	Bulk

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

<p>2SC5765L-T9K-R</p> <p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Lead Free</p>	<p>(1) K: Bulk</p> <p>(2) T9S: TO-92SP</p> <p>(3) L: Lead Free, G: Halogen Free</p>
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■ ABSOLUTE MAXIMUM RATING ($T_A=25^{\circ}\text{C}$)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	15	V
Collector-Emitter Voltage	V_{CEO}	10	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	DC	5	A
	PLUSED	9	A
Collector Power Dissipation (Note 2)	P_C	550	mW
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

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.

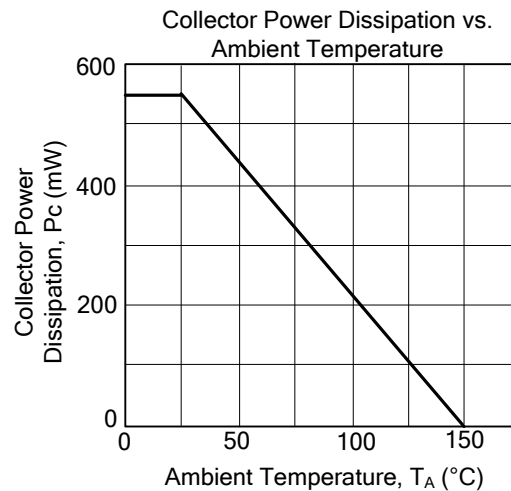
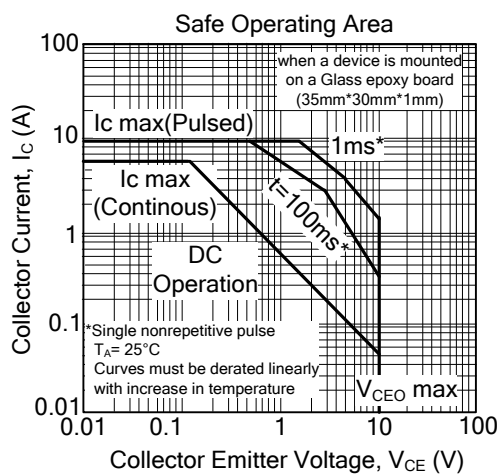
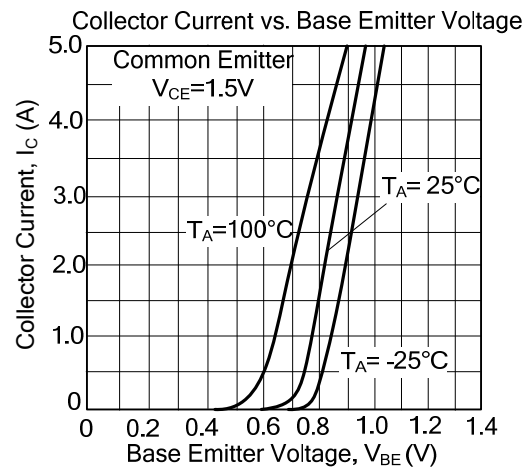
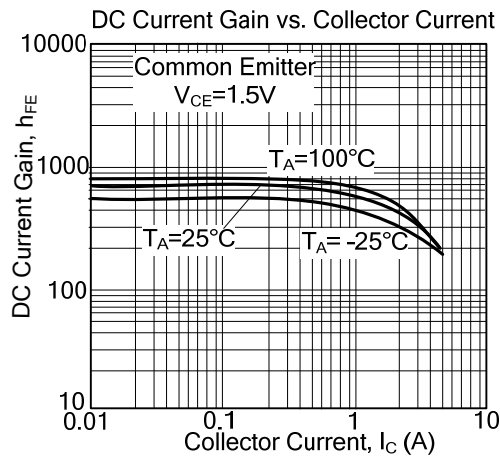
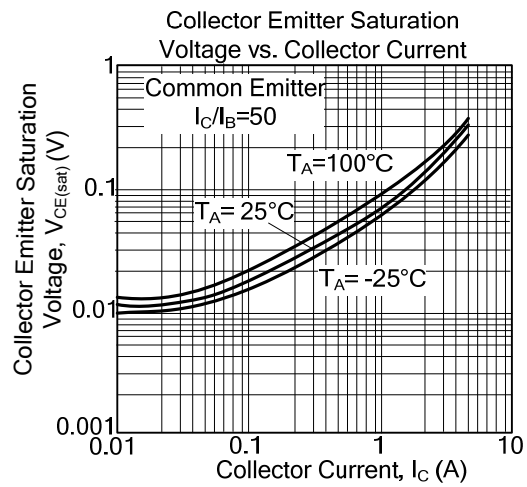
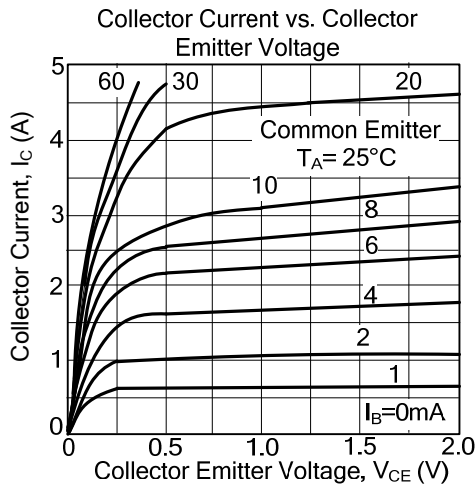
2. When a device is mounted on a glass epoxy board (35 mm*30 mm*1mm)

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

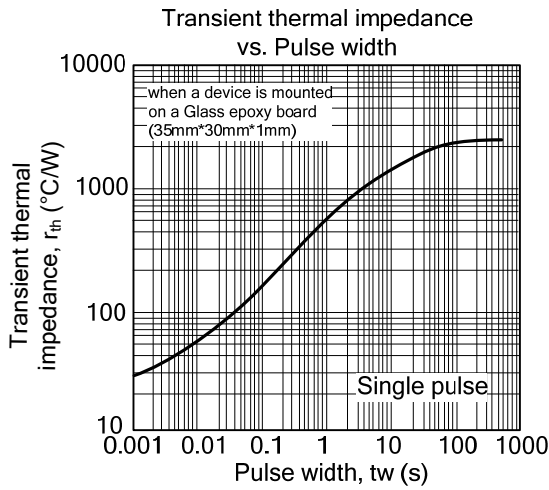
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = 1\text{mA}$, $I_B = 0$	10			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=15\text{V}$, $I_E = 0$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}= 5\text{V}$, $I_C=0$			0.1	μA
DC Current Gain (Note)	h_{FE1}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

Note: Pulse test

TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS



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