



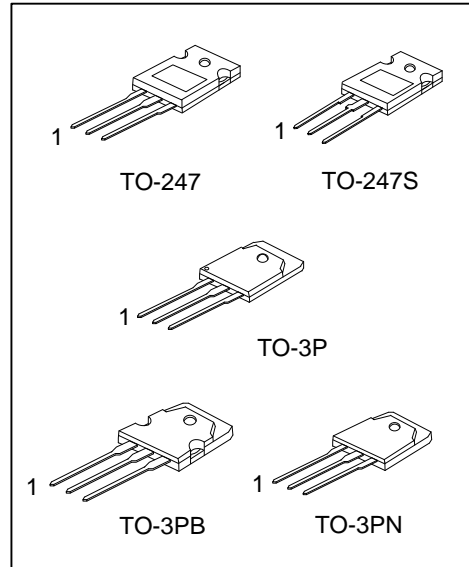
2SC2625

NPN EPITAXIAL SILICON TRANSISTOR

HIGH VOLTAGE HIGH SPEED SWITCHING

■ **FEATURES**

- * High voltage, high speed switching
- * High reliability



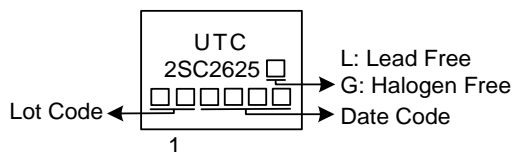
■ **ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC2625L-T3P-T	2SC2625G-T3P-T	TO-3P	B	C	E	Tube
2SC2625L-T3B-T	2SC2625G-T3B-T	TO-3PB	B	C	E	Tube
2SC2625L-T3N-T	2SC2625G-T3N-T	TO-3PN	B	C	E	Tube
2SC2625L-T47-T	2SC2625G-T47-T	TO-247	B	C	E	Tube
2SC2625L-T47S-T	2SC2625G-T47S-T	TO-247S	B	C	E	Tube

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

<p>2SC2625G-T3P-T</p>	<p>(1) T: Tube</p> <p>(2) T3P: TO-3P, T3B: TO-3PB, T3N: TO-3PN, T47: TO-247, T47S: TO-247S</p> <p>(3) G: Halogen Free and Lead Free, L: Lead Free</p>
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■ **MARKING**



■ **ABSOLUTE MAXIMUM RATINGS** ($T_C=25^\circ\text{C}$, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector Base Voltage		V_{CBO}	450	V
Collector Emitter Voltage		V_{CEO}	400	V
		$V_{CEO(SUS)}$	400	V
Emitter Base Voltage		V_{EBO}	7	V
Collector Current		I_C	10	A
Base Current		I_B	3	A
Power Dissipation	TO-247/TO-247S	P_D	78	W
	TO-3P/TO-3PB		80	W
	TO-3PN			
Junction Temperature		T_J	+150	$^\circ\text{C}$
Storage Temperature		T_{STG}	-40 ~ +150	$^\circ\text{C}$

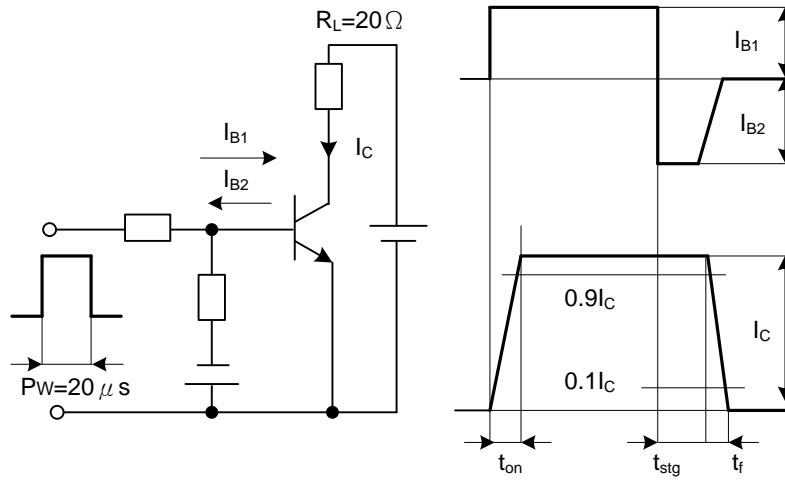
■ **THERMAL DATA**

PARAMETER		SYMBOL	RATINGS	UNIT
Junction to Case	TO-247/TO-247S	θ_{jC}	1.6	$^\circ\text{C/W}$
	TO-3P/TO-3PB		1.55	$^\circ\text{C/W}$
	TO-3PN			

■ **ELECTRICAL SPECIFICATIONS** ($T_C=25^\circ\text{C}$, unless otherwise specified)

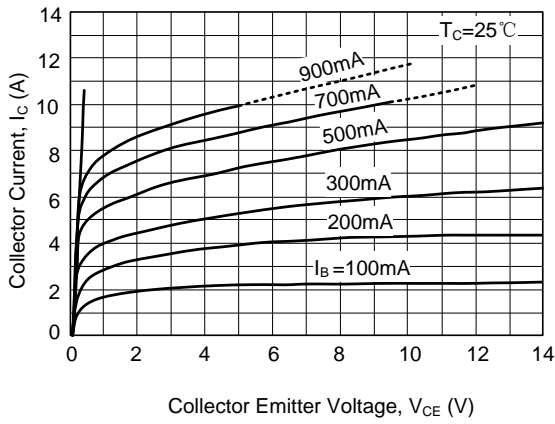
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Voltage	V_{CBO}	$I_{CBO}=1\text{mA}$	450			V
Collector Emitter Voltage	V_{CEO}	$I_{CEO}=10\text{mA}$	400			V
	$V_{CEO(SUS)}$	$I_C=1\text{A}$	400			V
Emitter Base Voltage	V_{EBO}	$I_{EBO}=0.1\text{mA}$	7			V
Collector-Emitter Saturation Voltage	$V_{CE(Sat)}$	$I_C=4\text{A}, I_B=0.8\text{A}$			1.2	V
Base Emitter Saturation Voltage	$V_{BE(Sat)}$				1.5	V
Collector Cut-off Current	I_{CBO}	$V_{CBO}=450\text{V}$			1.0	mA
Emitter Cut-off Current	I_{EBO}	$V_{EBO}=7\text{V}$			0.1	mA
DC Current Gain	h_{FE}	$I_C=4\text{A}, V_{CE}=5\text{V}$	10			
Switching Time	t_{ON}	$I_C=7.5\text{A}, I_{B1}=-I_{B2}=1.5\text{A}$ $R_L=20\Omega, P_w=20\mu\text{s}, \text{Duty} \leq 2\%$			1.0	μs
	t_{STG}				2.0	μs
	t_F				1.0	μs

■ SWITCHING TIME TEST CIRCUIT

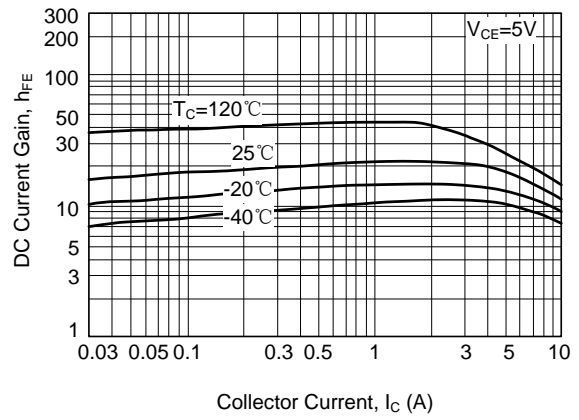


TYPICAL CHARACTERISTICS

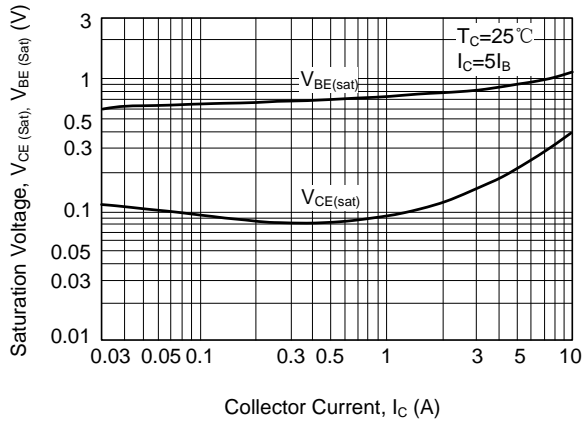
Collector Output Characteristics



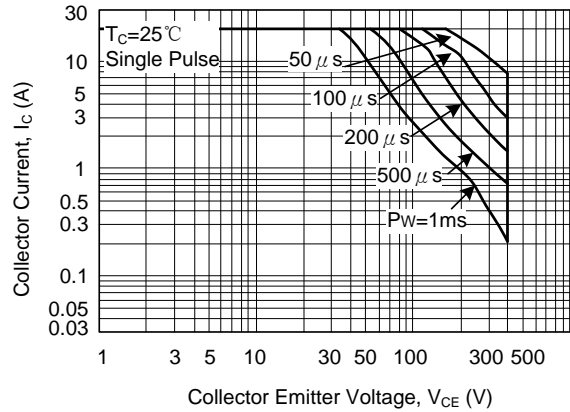
DC Current Gain



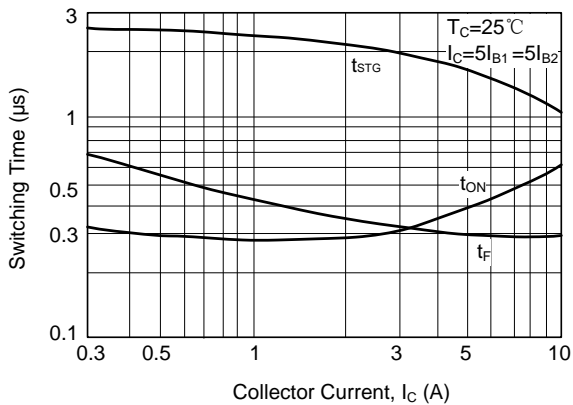
Base and Collector Saturation Voltage



Safe Operating Area



Switching Time



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