

2SD2470

# **STROBO AND DC/DC** CONVERTERS

### **FEATURES**

- \* Low saturation voltage V= 0.25V(typ) at I<sub>C</sub>/I<sub>B</sub>= 3A/0.1A
- WWW.DZSC.CON \* Collector current of 5A is possible

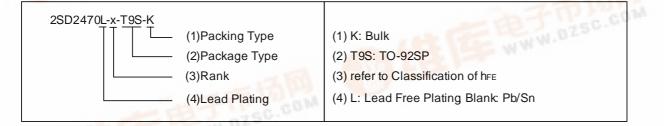


NPN SILICON TRANSISTOR

\*Pb-free plating product number: 2SD2470L

## **ORDERING INFORMATION**

Order Number		Dookogo	Pin	Assignn	Decking		
Normal	Lead Free Plating	Package	1	2	3	Packing	
2SD2470-x-T9S-K	2SD2470L-x-T92-K	TO-92SP	Е	С	В	Bulk	



# NPN SILICON TRANSISTOR

#### ABSOLUTE MAXIMUM RATING (Ta=25 )

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V <sub>CBO</sub>	15	V
Collector-Emitter Voltage	V <sub>CEO</sub>	10	V
Emitter-Base Voltage	V <sub>EBO</sub>	10	V
Collector Current (DC)	Ι <sub>C</sub>	5	А
Collector Current (PULSE)*	I <sub>CP</sub>	8	А
Collector Power Dissipation	Pc	0.4	W
Junction Temperature	TJ	+150	
Storage Temperature	T <sub>STG</sub>	-55 ~ +150	

Note 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. \* Single Pulse =10ms

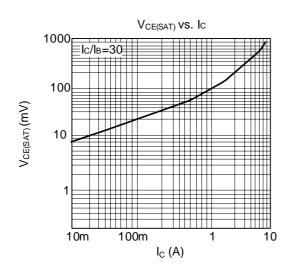
#### ELECTRICAL CHARACTERISTICS (Ta=25 , unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>C</sub> = 50μΑ	15			V
Collector Emitter Breakdown Voltage	$BV_{CEO}$	I <sub>C</sub> = 1mA	10			V
Emitter Base Breakdown Voltage	$BV_{EBO}$	Ι <sub>Ε</sub> =50μΑ	10			V
Collector Cut-Off Current	I <sub>CBO</sub>	V <sub>CB</sub> =10V, I <sub>E</sub> =0			0.1	μA
Emitter Cut-Off Current	I <sub>EBO</sub>	$V_{EB}=8V, I_{C}=0$			0.5	μA
DC Current Gain	h <sub>FE</sub>	$V_{CE}$ = 2V, $I_C$ = 2A	270		820	
Collector-Emitter Saturation Voltage	V <sub>CE(SAT)</sub>	I <sub>C</sub> /I <sub>B</sub> =3A /0.1A		0.25	0.5	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =6V, I <sub>E</sub> =0.05A, f=100MHz		170		MHz
Output Capacitance	Cob	V <sub>CB</sub> = 10V, I <sub>E</sub> = 0 A, f=1MHz		30		рF

### CLASSIFICATION OF h<sub>FE</sub>

RANK	S	E
RANGE	270~560	450~820

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# TYPICAL CHARACTERISTICS

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

