



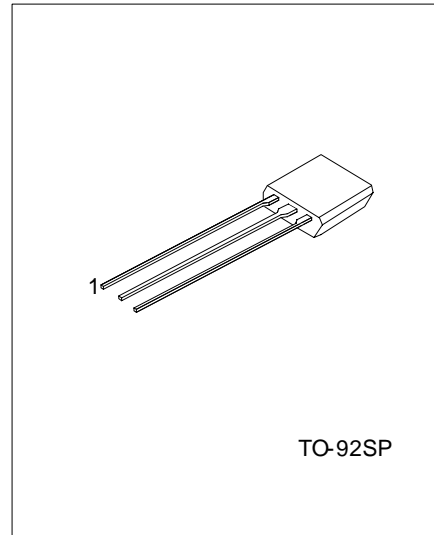
2SD2470

NPN SILICON TRANSISTOR

STROBO AND DC/DC CONVERTERS

FEATURES

- * Low saturation voltage
V_{CE(sat)} = 0.25V(typ) at I_C/I_B = 3A/0.1A
- * Collector current of 5A is possible



*Pb-free plating product number: 2SD2470L

ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
2SD2470-x-T9S-K	2SD2470L-x-T92-K	TO-92SP	E	C	B	Bulk

<p>2SD2470L-x-T9S-K</p> <p>(1)Packing Type (2)Package Type (3)Rank (4)Lead Plating</p>	<p>(1) K: Bulk (2) T9S: TO-92SP (3) refer to Classification of h_{FE} (4) L: Lead Free Plating Blank: Pb/Sn</p>
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2SD2470

NPN SILICON TRANSISTOR

■ ABSOLUTE MAXIMUM RATING (Ta=25)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	15	V
Collector-Emitter Voltage	V _{CEO}	10	V
Emitter-Base Voltage	V _{EBO}	10	V
Collector Current (DC)	I _C	5	A
Collector Current (PULSE)*	I _{CP}	8	A
Collector Power Dissipation	P _C	0.4	W
Junction Temperature	T _J	+150	
Storage Temperature	T _{STG}	-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

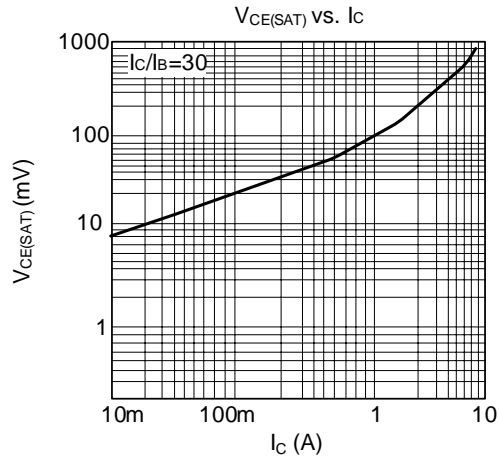
■ ELECTRICAL CHARACTERISTICS (Ta=25 , unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	BV _{CBO}	I _C = 50μA	15			V
Collector Emitter Breakdown Voltage	BV _{CEO}	I _C = 1mA	10			V
Emitter Base Breakdown Voltage	BV _{EBO}	I _E =50μA	10			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =10V, I _E =0			0.1	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} = 8V, I _C =0			0.5	μA
DC Current Gain	h _{FE}	V _{CE} = 2V, I _C = 2A	270		820	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C /I _B =3A /0.1A		0.25	0.5	V
Transition Frequency	f _T	V _{CE} =6V, I _E =0.05A, f=100MHz		170		MHz
Output Capacitance	C _{ob}	V _{CB} = 10V, I _E = 0 A, f=1MHz		30		pF

■ CLASSIFICATION OF h_{FE}

RANK	S	E
RANGE	270~560	450~820

■ TYPICAL CHARACTERISTICS



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