

ISC Silicon NPN Power Transistor

2SC4687

DESCRIPTION

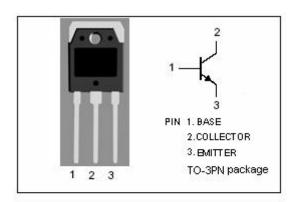
- Low Collector Saturation Voltage
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 400V (Min)
- · Good Linearity of hFE
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

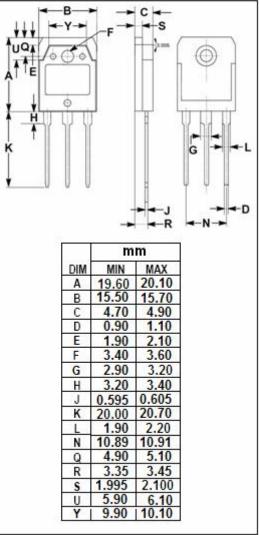
APPLICATIONS

· Designed for use in humidifier , DC/DC converter and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	500	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	7	A
Ісм	Collector Current-Pulse	14	А
l _B	Base Current-Continuous	3	А
Pc	Collector Power Dissipation @ Tc=25°C	60	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA ; I _B = 0	400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			100	μА
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	15			
h _{FE-2}	DC Current Gain	I _C = 3A ; V _{CE} = 5V	8			
f⊤	Current-Gain—Bandwidth Product	I _E = 0.5A ; V _{CE} = 10V		30		MHz

NOTICE:

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