

ISC Silicon NPN Power Transistor

DESCRIPTION

- Collector-Emitter Sustaining Voltage-
 - :V_{CEO(SUS)}= 800V(Min)
- · High Speed Switching
- Low Collector Saturation Voltage
- · Wide Area of Safe Operation
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

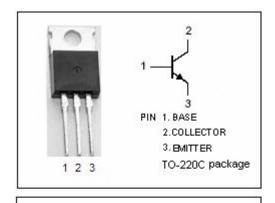


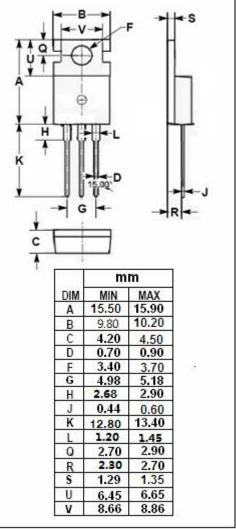
APPLICATIONS

· Designed for switching regulator, DC-DC converter and ultrasonic appliance applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1100	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	7	V
lc	Collector Current-Continuous	3	Α
Ісм	Collector Current-Peak	10	Α
I _B	Base Current-Continuous	1.5	Α
Pc	Collector Power Dissipation @ Tc=25℃	50	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	°C







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KSC5027

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 5mA; I _B = 0	800			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.3A			2.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.3A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μ A
h _{FE-1}	DC Current Gain	I _C = 0.2A ; V _{CE} = 5V	10		40	
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8			

h_{FE-1} Classifications

N	R	0
10-20	15-30	20-40

Notice:

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