

isc Silicon NPN Power Transistor

2SC3387

DESCRIPTION

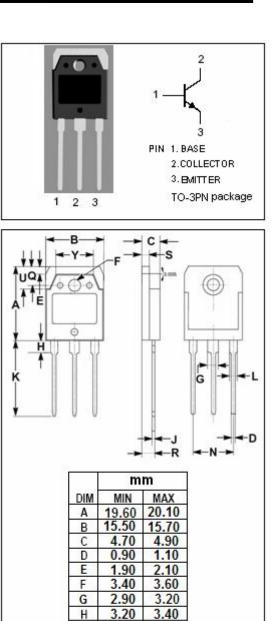
- · High Collector-Emitter Sustaining Voltage-: V_{CEO(SUS)}= 500V(Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

· Designed for switching regulator and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1200	v	
V _{CEO}	Collector-Emitter Voltage	500	V	
V _{EBO}	Emitter-Base voltage	6	V	
lc	Collector Current-Continuous	5	A	
Ісм	Collector Current-Peak	10	А	
Pc	Collector Power Dissipation @ $T_C=25^{\circ}C$	50	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	



0.595 0.605 20.00 20.70

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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 0.1A; I _B = 0	500			V
V(BR)EBO	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	6			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
Ісво	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	mA
h _{FE-1}	DC Current Gain	Ic= 0.1A; Vc== 5V	15			
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 5V	8			

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