

ISC Silicon NPN Power Transistor

2SC3306

DESCRIPTION

- · High Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 400V(Min)
- · High Switching Speed
- · High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

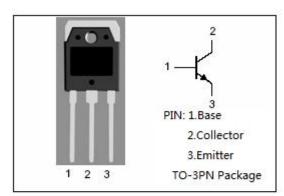


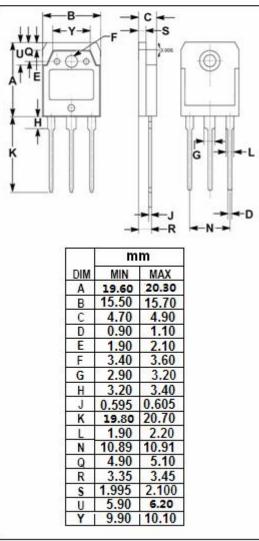
APPLICATIONS

- Switching regulator and high voltage switching applications.
- · High speed DC-DC converter applications.



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	10	А	
Ісм	Collector Current-Pulse	15	А	
I _B	Base Current-Continuous	5	А	
Pc	Collector Power Dissipation @ Tc=25°C	100	W	
TJ	Junction Temperature		°C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

u	ness other wise specifica								
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _(BR) CEO	Collector-Emitter Breakdown Voltage	I _C = 10mA ; I _B = 0	400			V			
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA ; I _E = 0	500			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			1.5	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			2.0	V			
Ісво	Collector Cutoff Current	V _{CB} = 400V ; I _E =0			0.1	mA			
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C =0			1.0	mA			
h _{FE}	DC Current Gain	I _C = 5A ; V _{CE} = 5V	10						
Switching times									
ton	Turn-on Time				1.0	μs			
t _{stg}	Storage Time	V _{CC} ≈ 200V , I _{B1} = -I _{B2} = 0.5A R _L = 40 Ω ;P _W =20 μ s Duty Cycle≤1%			2.5	μS			
t _f	Fall Time	Daty Cyclic ~ 1/0			1.0	μ S			

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