

Silicon NPN Power Transistor

DESCRIPTION

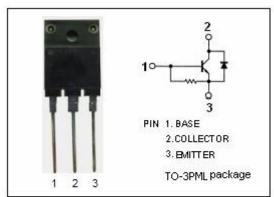
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 50V(Min)
- · Low Collector Saturation Voltage-
 - : V_{CE(sat)}= 0.5V(Max)@ I_C= 5A

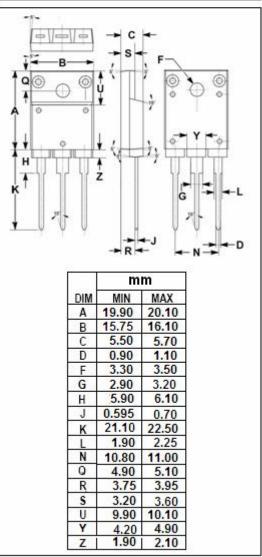
APPLICATIONS

 Designed for DC-DC converter, emergency lighting inverter and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	ollector-Base Voltage 100		
Vceo	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	15	V	
Ic	Collector Current-Continuous		Α	
I _{CP}	Collector Current-Peak 25		Α	
I _B	Base Current-Continuous	ous 4		
Pc	Collector Power Dissipation @ T _C =25°C 60		W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	





Ordering Information

Product	Package	Packaging
2SC4131T5TL	TO-3PML	Tube

V01 1



ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	50			V		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 80mA			0.5	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 80mA			1.2	V		
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V ; I _E = 0			10	μА		
I _{EBO}	Emitter Cutoff Current	V _{EB} = 15V ; I _C = 0			10	μ А		
h _{FE}	DC current gain	I _C = 5A ; V _{CE} = 1V	60		360			
f _⊤	Current-Gain—Bandwidth Product	I _E = -1A ; V _{CE} = 12V		18		MHz		
Сов	Output Capacitance	I _E =0 ; V _{CB} = 10V; f _{test} = 1.0MHz		210		pF		
Switching times								
t _{on}	Turn-on Time			0.5		μS		
t _{stg}	Storage Time	I_{C} = 5A , I_{B1} = 80mA; I_{B2} = 80mA R_{L} = 4 Ω ; V_{CC} = 20V		2.0		μS		
t _f	Fall Time			0.4		μs		

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