

isc Silicon NPN Power Transistor

2SC2809

DESCRIPTION

- Low Collector Saturation Voltage
- · Collector-Emitter Breakdown Voltage
- · Good Linearity of hFE
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

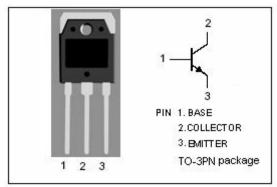


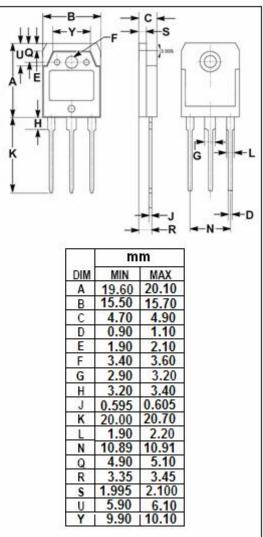
APPLICATIONS

· Designed for switching regulators applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	300	V	
V _{CEO}	Collector-Emitter Voltage	300	0 V	
V _{EBO}	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	2	Α	
Ісм	Collector Current-Pulse	4	Α	
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	50	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$	







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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	300			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.3A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1.5A; I _B =0.3A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} =300V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			100	μА
h _{FE}	DC Current Gain	I _C = 0.3A; V _{CE} = 4V	50			
f⊤	Current-Gain—Bandwidth Product	I _E = 0.3A ; V _{CE} = 12V		20		MHz



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