

isc Silicon NPN Power Transistor

2SC4429

DESCRIPTION

- · High Breakdown Voltage-
 - : V_{(BR)CEO}= 800V(Min)
- · Fast Switching speed
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

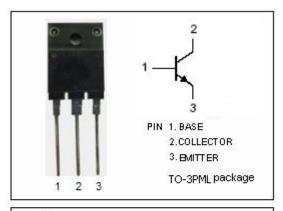
APPLICATIONS

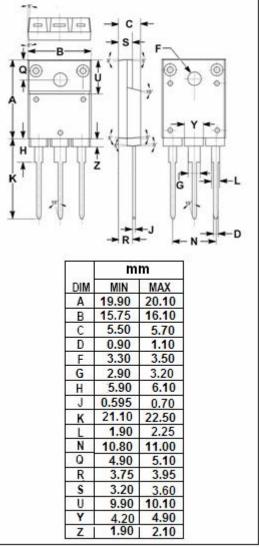


· Designed for switching regulator Applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1100	V	
Vceo	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	7	V	
lc	Collector Current-Continuous	8	А	
I _{CP}	Collector Current-Pulse	25	Α	
I _B	Base Current-Continuous	4	А	
Pc	Collector Power Dissipation @ T _C =25℃	60	w	
	Collector Power Dissipation @ T _a =25℃	3	VV	
TJ	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C =5mA; I _B = 0	800			V	
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C =1mA; I _E =0	1100			V	
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E =1mA; I _C =0	7			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			2.0	V	
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			1.5	V	
Ісво	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			10	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА	
h _{FE-1}	DC Current Gain	I _C =0.6A ; V _{CE} = 5V	10		40		
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 5V	8				

h_{FE-1} Classifications

K	L	М
10-20	15-30	20-40

NOTICE:

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