



isc Silicon NPN Power Transistor

DESCRIPTION

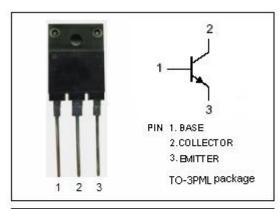
- · High Breakdown Voltage-
 - : V_{(BR)CEO}= 500V(Min)
- · Fast Switching speed
- · Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

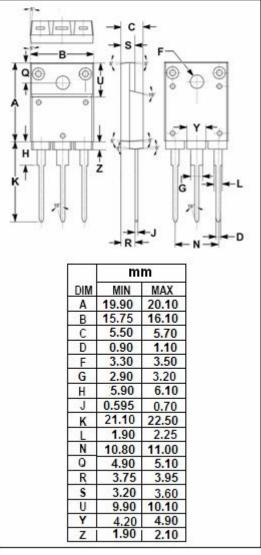
APPLICATIONS

· Designed for switching regulator applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	800	V	
V _{CEO}	Collector-Emitter Voltage	500	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	15	А	
I _{CP}	Collector Current-Pulse	25	А	
I _B	Base Current-Continuous	4	Α	
P _C	Collector Power Dissipation @ T _C =25℃	55	W	
	Collector Power Dissipation @ T _a =25℃	3		
TJ	Junction Temperature	150 °C		
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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2SC4460

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

10-20 C unless otherwise specified							
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 5mA; R _{BE} = ∞	500			V	
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	800			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 = 6A; I _B = 1.2A			1.0	V	
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 1.2A			1.5	V	
Ісво	Collector Cutoff Current	V _{CB} = 500V; 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 = 1.2A ; V _{CE} = 5V	15		50		
h _{FE-2}	DC Current Gain	Ic= 6A; VcE= 5V	8				

♦ h_{FE-1} Classifications

L	М	N
15-30	20-40	30-50

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