

isc Silicon NPN Power Transistor

KTC2200

DESCRIPTION

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

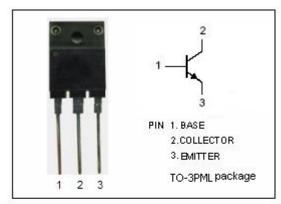
APPLICATIONS

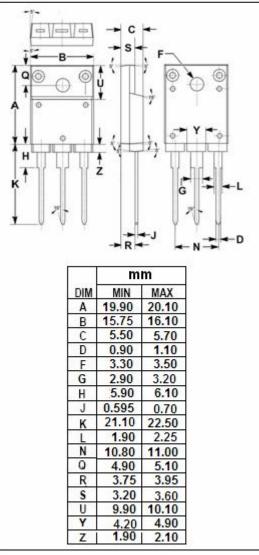


- · Switching regulator application.
- · High voltage switching application.
- · High speed DC-DC converter application.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	500	V	
Vceo	Collector-Emitter Voltage	400	V	
V_{EBO}	Emitter-Base Voltage	7	V	
lc	Collector Current-Continuous	8	Α	
I _B	Base Current-Continuous	3	Α	
Pc	Collector Power Dissipation @ Tc=25℃	60	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	500			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	400			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 = 3A; I _B = 0.3A			1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 400V ; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V ; I _C = 0			1	mA
h _{FE}	DC Current Gain	I _C = 3A ; V _{CE} = 5V	10			

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