

isc Silicon NPN Power Transistors

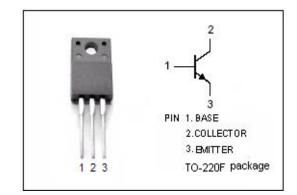
2SC6144

DESCRIPTION

- · Collector-Emitter Saturation Voltage-
- : $V_{CE(sat)} = 0.36V(Max.)@I_C = 6A$
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR) CEO}= 50V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Relay drivers,lamp drivers,motor drivers

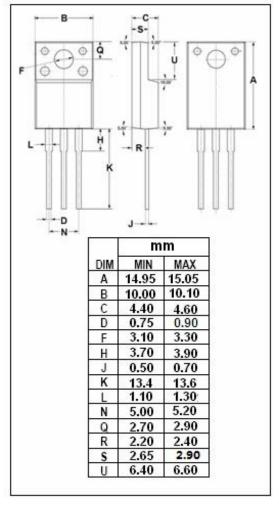


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	60	V
Vceo	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	10	Α
I _{CM}	Collector Current-Pulse	13	Α
I _B	Base Current	2	Α
Pc	Collector Power Dissipation T _C =25°C	25	W
T _j	Max.Junction Temperature	150	$^{\circ}\!\mathbb{C}$
T _{stg}	Storage Ttemperature Range	-55~150	$^{\circ}\!\mathbb{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	5	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	50		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B = 300mA		0.36	٧
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 300mA		1.2	V
І _{СВО}	Collector Cutoff Current	V _{CE} = 40V; V _{EB} = 0		10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		10	μA
h _{FE}	DC Current Gain	I _C =0.27A; V _{CE} = 2V	200	560	



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