

isc Silicon NPN Power Transistor

2SC5144

DESCRIPTION

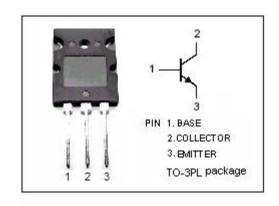
- · High Switching Speed
- · High Breakdown Voltage-
- : V_{(BR)CBO}= 1700V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

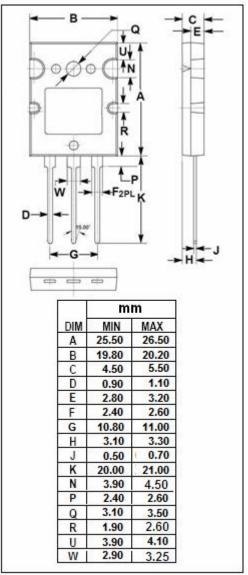
APPLICATIONS

• Designed for horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1700	V
V _{CEO}	Collector-Emitter Voltage	600	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	20	Α
Ісм	Collector Current-Pulse	40	Α
Pc	Collector Power Dissipation @ $T_C=25^{\circ}C$	200	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$







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ELECTRICAL CHARACTERISTICS

 T_C =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA; I _B = 0	600			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 11A; I _B =2.75A			3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 11A; I _B =2.75A			1.3	V
Ісво	Collector Cutoff Current	V _{CB} = 1700V; I _E = 0			1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	uA
h _{FE-1}	DC Current Gain	I _C = 2A; V _{CE} = 5V	10		30	
h _{FE-2}	DC Current Gain	I _C = 11A; V _{CE} = 5V	4.5			

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