

# **isc Silicon NPN Power Transistor**

2SC5280

### **DESCRIPTION**

- · High Breakdown Voltage-
  - : V<sub>CBO</sub>= 1500V (Min)
- · High Switching Speed
- · Low Saturation Voltage
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

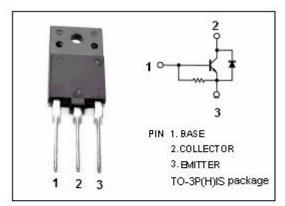
## **APPLICATIONS**

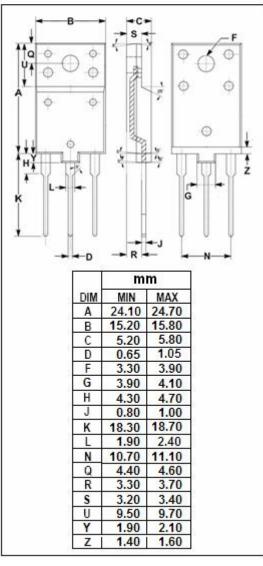


- Horizontal deflection output for high medium resolution display& color TV.
- High speed switching applications.

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CBO</sub>	Collector-Base Voltage	1500	٧
V <sub>CEO</sub>	Collector-Emitter Voltage	600	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
Ic	Collector Current- Continuous	8	А
I <sub>CM</sub>	Collector Current- Continuous	16	А
I <sub>B</sub>	Base Current- Continuous	4	Α
Pc	Collector Power Dissipation @ Tc=25℃	50	W
TJ	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-55~150	$^{\circ}$ C







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#### **ELECTRICAL CHARACTERISTICS**

 $T_c=25$ °C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = 200mA; I <sub>C</sub> = 0	5			V
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 6A; I <sub>B</sub> = 1.5A			5.0	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> = 6A; I <sub>B</sub> = 1.5A			1.5	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 1500V; I <sub>E</sub> = 0			1.0	mA
ІЕВО	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> = 0	72		250	mA
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = 1A; V <sub>CE</sub> = 5V	10		35	
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 6A; V <sub>CE</sub> = 5V	4		8.5	

#### NOTICE:

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