

## **isc Silicon NPN Power Transistor**

# 2SD1452

#### **DESCRIPTION**

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

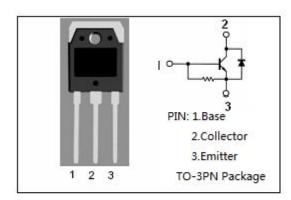
#### **APPLICATIONS**

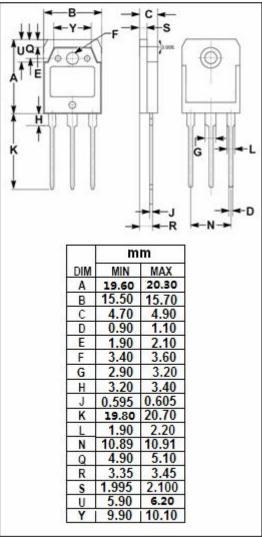


• Designed for TV horizontal deflection output applications.

#### ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
Vces	Collector-Emitter Voltage	1500	V
V <sub>EBO</sub>	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	2.5	А
Pc	Collector Power Dissipation @ T <sub>C</sub> = 25 °C	50	W
TJ	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-45~150	°C







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#### **ELECTRICAL CHARACTERISTICS**

Tc=25℃ 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	6			V
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 2A; I <sub>B</sub> = 0.6A			5.0	V
V <sub>BE</sub> (sat)	Base-Emitter Saturation Voltage	I <sub>C</sub> = 2A; I <sub>B</sub> = 0.6A			1.5	V
I <sub>CES</sub>	Collector Cutoff Current	V <sub>CE</sub> = 1500V; R <sub>BE</sub> = ∞			0.5	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 0.3A; V <sub>CE</sub> = 5V	6			
V <sub>ECF</sub>	C-E Diode Forward Voltage	I <sub>F</sub> = 2.5A			2.2	V

#### **NOTICE:**

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