

## isc Silicon NPN Power Transistor

2SD1732

## DESCRIPTION

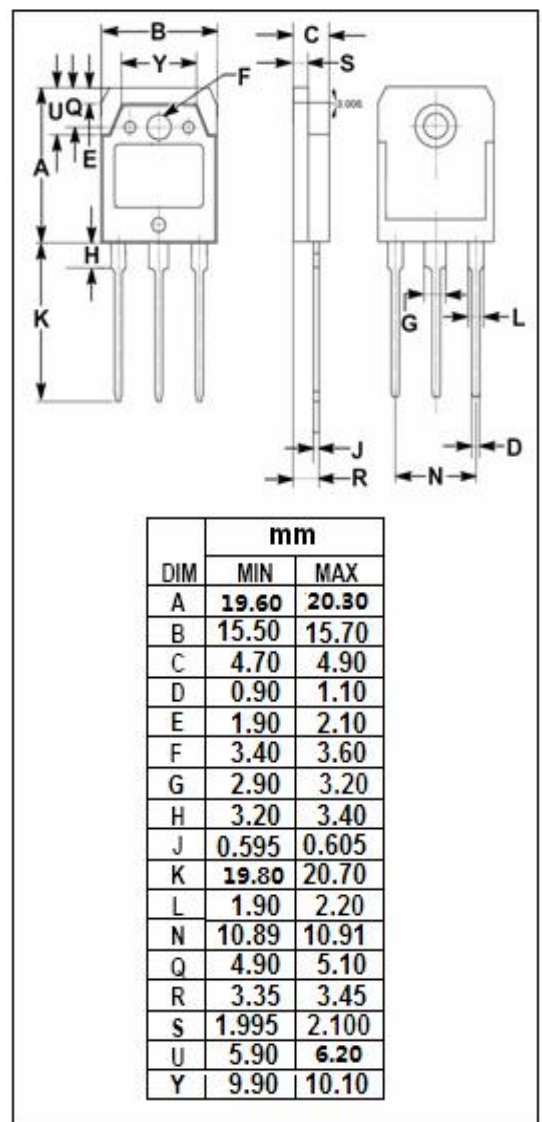
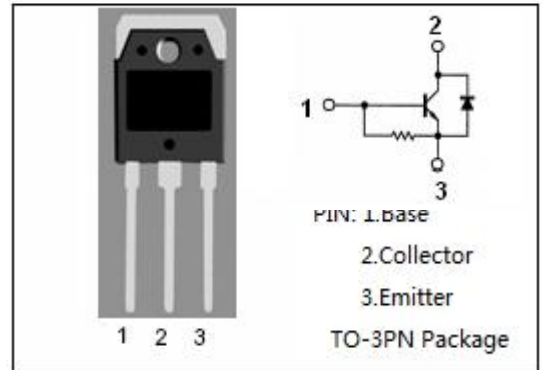
- High Voltage
- High Switching Speed
- Built-in damper diode
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## APPLICATIONS

- Designed for horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>CB0</sub>	Collector-Base Voltage	1300	V
V <sub>CES</sub>	Collector-Emitter Voltage	1300	V
V <sub>CEO</sub>	Collector-Emitter Voltage	700	V
V <sub>EBO</sub>	Emitter-Base Voltage	7	V
I <sub>C</sub>	Collector Current-Continuous	7	A
I <sub>CP</sub>	Collector Current-Peak	20	A
I <sub>B</sub>	Base Current- Continuous	3	A
P <sub>C</sub>	Collector Power Dissipation @T <sub>C</sub> =25°C	120	W
T <sub>j</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature Range	-55-150	°C



**isc Silicon NPN Power Transistor****2SD1732****ELECTRICAL CHARACTERISTICS****T<sub>C</sub>=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	7			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 6A; I <sub>B</sub> = 1.4A			8.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 6A; I <sub>B</sub> = 1.4A			1.5	V
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 1A; V <sub>CE</sub> = 5V	5		25	
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 750V; I <sub>E</sub> = 0			10	μ A
		V <sub>CB</sub> = 1300V; I <sub>E</sub> = 0			1.0	mA
V <sub>ECF</sub>	C-E Diode Forward Voltage	I <sub>F</sub> = 7A			2.3	V
f <sub>T</sub>	Transition Frequency	I <sub>C</sub> = 1A; V <sub>CE</sub> = 10V		2		MHz
Switching Times, Resistive Load						
t <sub>s</sub>	Storage Time	I <sub>C</sub> = 6A; I <sub>B1</sub> = 1.2A; I <sub>B2</sub> = 2.4A, V <sub>CC</sub> = 200V		1.5		μ s
t <sub>f</sub>	Fall Time			0.2		μ s

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