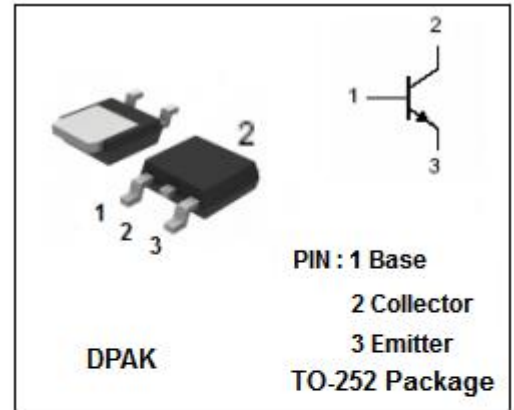


**isc Silicon NPN Power Transistor**

**2SC5548A**

**DESCRIPTION**

- With TO-252(DPAK) packaging
- Excellent linearity of  $h_{FE}$
- Low collector-to-emitter saturation voltage
- Fast switching speed
- Complementary to 2SB1204
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

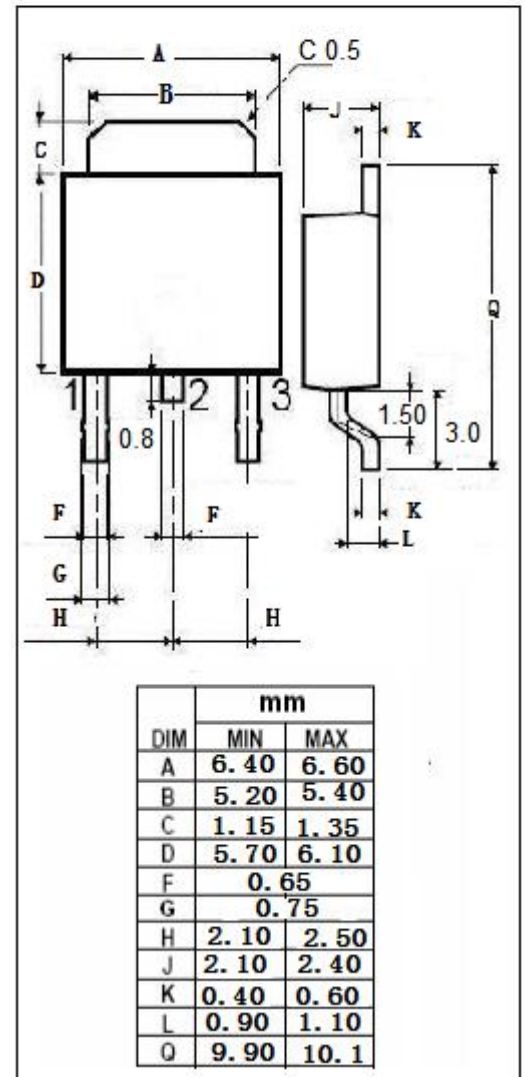


**APPLICATIONS**

- Relay drivers, high-speed inverters , converters and Other general high current switching applications

**ABSOLUTE MAXIMUM RATINGS( $T_a=25^\circ\text{C}$ )**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	600	V
$V_{CEO}$	Collector-Emitter Voltage	400	V
$V_{EBO}$	Emitter-Base Voltage	7	V
$I_c$	Collector Current-Continuous	2	A
$P_c$	Collector Power Dissipation	1	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	15	
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ\text{C}$



## isc Silicon NPN Power Transistor

## 2SC5548A

## ELECTRICAL CHARACTERISTICS

T<sub>c</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> =1mA; I <sub>B</sub> =0	600			V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> =10mA; I <sub>B</sub> =0	400			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 0.8A; I <sub>B</sub> = 0.1A			1.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 0.8A; I <sub>B</sub> = 0.1A			1.3	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 480V; I <sub>E</sub> = 0			20	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 7V; I <sub>C</sub> =0			10	μ A
h <sub>FE-1</sub>	DC Current Gain	I <sub>C</sub> = 1mA ; V <sub>CE</sub> = 5V	20			
h <sub>FE-2</sub>	DC Current Gain	I <sub>C</sub> = 0.2A ; V <sub>CE</sub> = 5V	40		100	

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