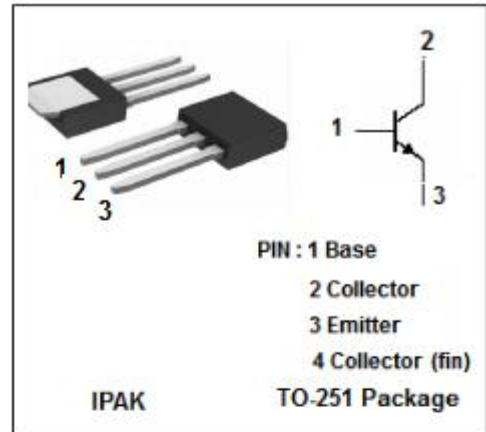


isc Silicon NPN Power Transistor
2SC5548
DESCRIPTION

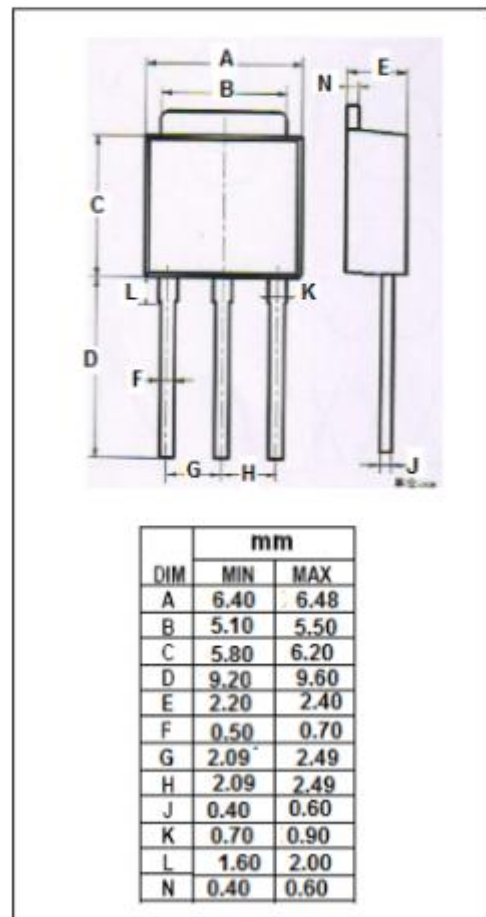
- Excellent linearity of h_{FE}
- Low collector-to-emitter saturation voltage
- Fast switching speed
- Complementary to 2SB1204
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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
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ELECTRICAL CHARACTERISTICS

 T_c=25°C unless otherwise specified

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

NOTICE:

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