

## isc Silicon PNP Power Transistor

2SA2184

## DESCRIPTION

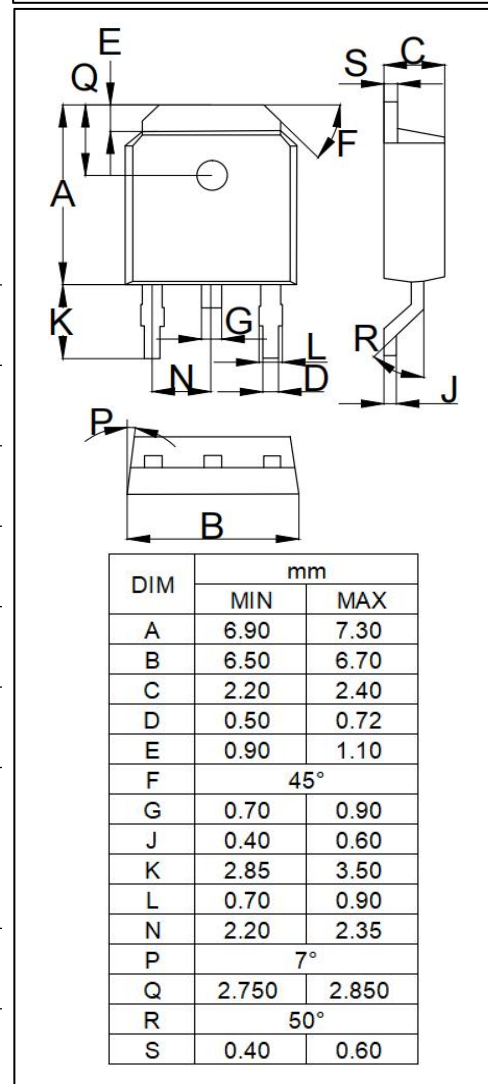
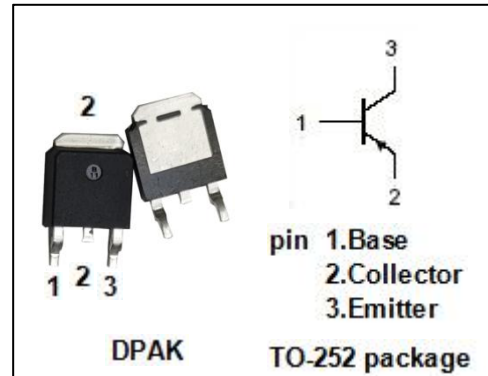
- Low Collector Saturation Voltage-  
:  $V_{CE(sat)} = -0.7V(\text{Max.}) @ I_C = -0.3A$
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## APPLICATIONS

- Designed for high current switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-480	V
$V_{CEO}$	Collector-Emitter Voltage	-450	V
$V_{EBO}$	Emitter-Base Voltage	-7	V
$I_C$	Collector Current-Continuous	-1	A
$I_B$	Base Current-Continuous	-0.5	A
$P_C$	Collector Power Dissipation @ $T_a=25^\circ\text{C}$	1	W
	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	20	
$T_J$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature	-55~150	$^\circ\text{C}$



**isc Silicon PNP Power Transistor****2SA2184****ELECTRICAL CHARACTERISTICS****T<sub>j</sub>=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -10mA; I <sub>B</sub> = 0	-450		V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -300mA; I <sub>B</sub> = -60mA		-0.7	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -300mA; I <sub>B</sub> = -60mA		-1.2	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -480V; I <sub>E</sub> = 0		-10	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -7V; I <sub>C</sub> = 0		-1.0	μ A
h <sub>FE1</sub>	DC Current Gain	I <sub>C</sub> = -100mA; V <sub>CE</sub> = -5V	80	300	
h <sub>FE2</sub>	DC Current Gain	I <sub>C</sub> = -500mA; V <sub>CE</sub> = -5V	5		

**Characteristics Curve:**

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