

## isc Silicon NPN Power Transistor

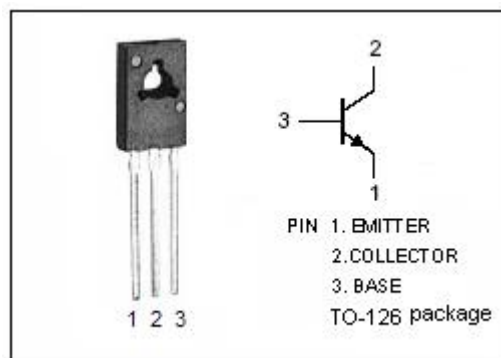
2SC3424

## DESCRIPTION

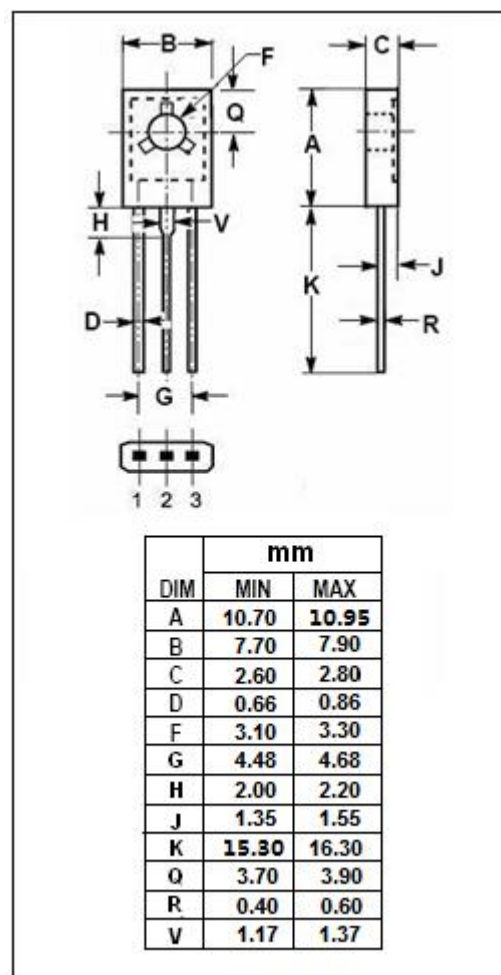
- Collector-Emitter Breakdown Voltage-  
:  $V_{(BR)CEO} = 250V$  (Min)
- Complement to Type 2SA1361
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## APPLICATIONS

- Designed for TV chroma output applications.


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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	250	V
$V_{CEO}$	Collector-Emitter Voltage	250	V
$V_{EBO}$	Emitter-Base Voltage	5.0	V
$I_C$	Collector Current-Continuous	50	mA
$I_{CP}$	Collector Current-Peak	100	mA
$I_B$	Base Current-Continuous	20	mA
$P_C$	Collector Power Dissipation @ $T_a=25^{\circ}C$	1.5	W
$T_J$	Junction Temperature	150	$^{\circ}C$
$T_{stg}$	Storage Temperature Range	-55~150	$^{\circ}C$



**isc Silicon NPN Power Transistor****2SC3424****ELECTRICAL CHARACTERISTICS****T<sub>c</sub>=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 1mA; I <sub>B</sub> = 0	250			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 10mA; I <sub>B</sub> = 1mA			1.5	V
V <sub>BE(on)</sub>	Base-Emitter On Voltage	I <sub>C</sub> = 25mA; V <sub>CE</sub> = 20V		0.75		V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 200V; I <sub>E</sub> = 0			1.0	μA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 5V; I <sub>C</sub> = 0			1.0	μA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 25mA; V <sub>CE</sub> = 20V	50			
f <sub>T</sub>	Current-Gain—Bandwidth Product	I <sub>C</sub> = 10mA; V <sub>CE</sub> = 10V		80		MHz

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