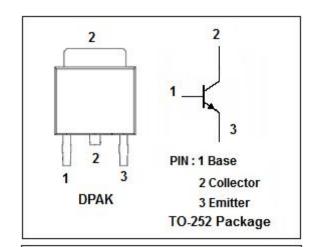


# **isc Silicon NPN Power Transistor**

# **2SCR586D**

#### **DESCRIPTION**

- Suitable for middle power drivers
- Low V<sub>CE(sat)</sub> V<sub>CE(sat)</sub>≤0.3V@(I<sub>C</sub>=2A,I<sub>B</sub>=100mA)
- Complementary NPN types:2SAR586D
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

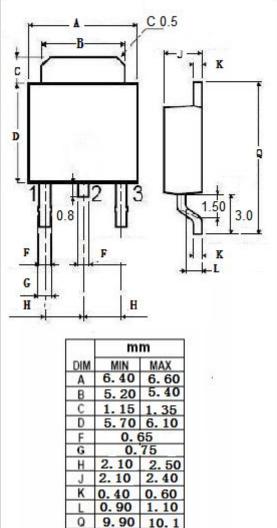


### **APPLICATIONS**

· Low frequency amplifier

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V <sub>СВО</sub>	Collector-Base Voltage	80	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	80	٧	
V <sub>EBO</sub>	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	5	А	
I <sub>CM</sub>	Collector Current-Peak	10	Α	
Pc	Collector Power Dissipation @ T <sub>C</sub> =25°C	10	W	
TJ	Junction Temperature 150		°C	
T <sub>stg</sub>	Storage Temperature Range	-55~150	°C	





# **isc Silicon NPN Power Transistor**

**2SCR586D** 

#### **ELECTRICAL CHARACTERISTICS**

T<sub>c</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV <sub>CBO</sub>	Collector-Base breakdown voltage	I <sub>C</sub> =100uA	80			V
BV <sub>CEO</sub>	Collector-Emitter breakdown voltage	I <sub>C</sub> =1mA	80			V
BV <sub>EBO</sub>	Emitter-Base breakdown voltage	I <sub>E</sub> =100uA	6			V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 2A; I <sub>B</sub> = 100mA			0.3	V
Ісво	Collector Cutoff Current	V <sub>CB</sub> = 80V; I <sub>E</sub> = 0			1.0	μ <b>Α</b>
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 4V; I <sub>C</sub> = 0			1.0	μА
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 0.5A; V <sub>CE</sub> = 3V	120		390	
Сов	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = 10V; f= 1.0MHz		50		pF
f <sub>T</sub> NOTE	Current-Gain—Bandwidth Product	I <sub>C</sub> = 0.5A; V <sub>CE</sub> = 10V,f= 100MHz		200		MHz

NOTE:Pulsed

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