

## isc Silicon NPN Power Transistor

## 2SCR572D

## DESCRIPTION

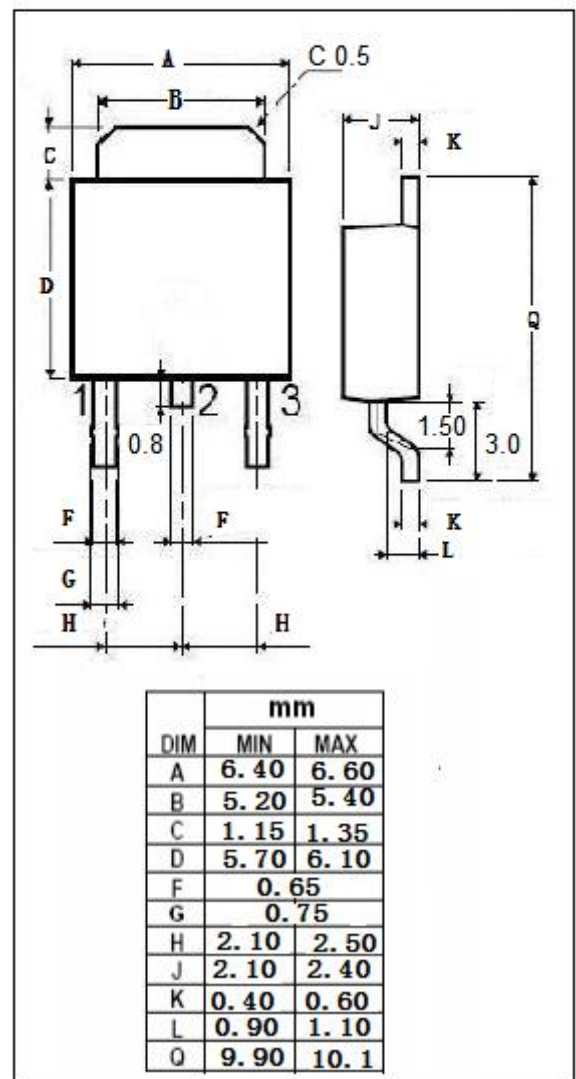
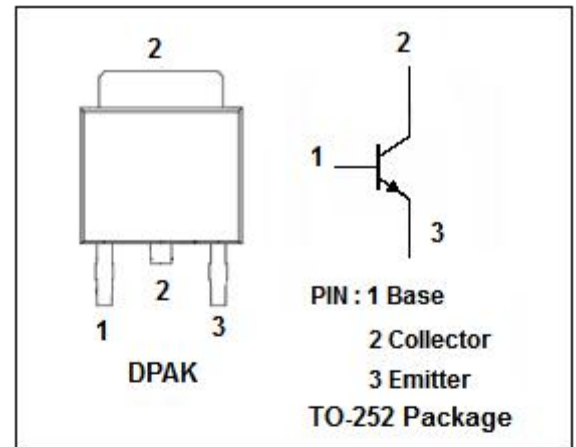
- Suitable for middle power drivers
- Low  $V_{CE(sat)}$   
 $V_{CE(sat)}=0.4V@(I_C=2A, I_B=0.1A)$
- Complementary NPN types: 2SAR572D
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## APPLICATIONS

- Low frequency amplifier

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	30	V
$V_{CEO}$	Collector-Emitter Voltage	30	V
$V_{EBO}$	Emitter-Base Voltage	6	V
$I_C$	Collector Current-Continuous	5	A
$I_{CM}$	Collector Current-Peak	10	A
$P_C$	Collector Power Dissipation @ $T_C=25^{\circ}C$	10	W
$T_J$	Junction Temperature	150	$^{\circ}C$
$T_{stg}$	Storage Temperature Range	-55~150	$^{\circ}C$



**isc Silicon NPN Power Transistor****2SCR572D****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> =100uA	30			V
BV <sub>CEO</sub>	Collector-Emitter breakdown voltage	I <sub>C</sub> =1mA	30			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			0.4	V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = 30V; I <sub>E</sub> = 0			1.0	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 4V; I <sub>C</sub> = 0			1.0	μ A
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 0.5A; V <sub>CE</sub> = 3V	200		500	
C <sub>OB</sub>	Output Capacitance	I <sub>E</sub> = 0; V <sub>CB</sub> = 10V; f= 1.0MHz		30		pF
f <sub>T</sub> <sup>NOTE</sup>	Current-Gain—Bandwidth Product	I <sub>C</sub> = 0.5A; V <sub>CE</sub> = 10V,f= 100MHz		300		MHz

NOTE:Pulsed

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