

isc Silicon NPN Power Transistor

2SCR573D

DESCRIPTION

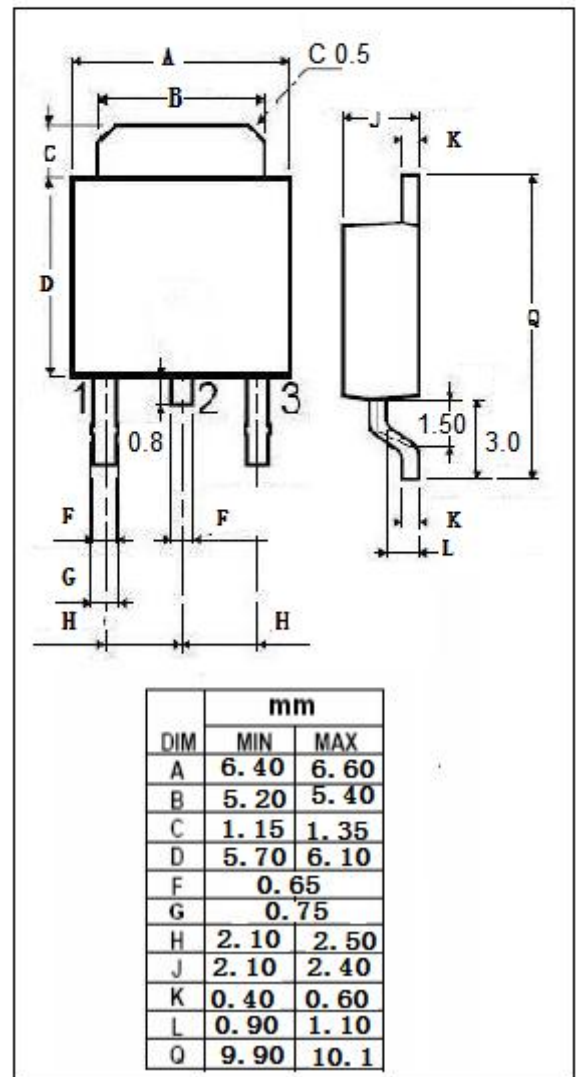
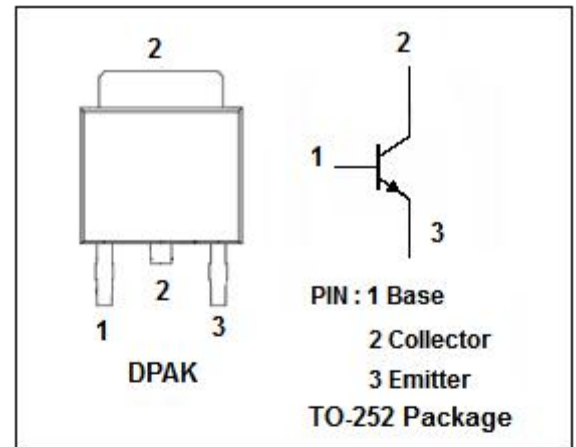
- Suitable for middle power drivers
- Low $V_{CE(sat)}$
 $V_{CE(sat)}=0.35V@ (I_C=1A, I_B=50mA)$
- Complementary NPN types: 2SAR573D
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Low frequency amplifier

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	50	V
V_{CEO}	Collector-Emitter Voltage	50	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	3	A
I_{CM}	Collector Current-Peak	6	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	10	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



isc Silicon NPN Power Transistor**2SCR573D****ELECTRICAL CHARACTERISTICS****T_C=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV _{CBO}	Collector-Base breakdown voltage	I _C =100uA	50			V
BV _{CEO}	Collector-Emitter breakdown voltage	I _C =1mA	50			V
BV _{EBO}	Emitter-Base breakdown voltage	I _E =100uA	6			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 50mA			0.35	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 50V; I _E = 0			1.0	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			1.0	μ A
h _{FE}	DC Current Gain	I _C = 0.1A; V _{CE} = 3V	180		450	
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1.0MHz		20		pF
f _T ^{NOTE}	Current-Gain—Bandwidth Product	I _C = 0.6A; V _{CE} = 10V,f= 100MHz		320		MHz

NOTE:Pulsed

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