

isc Silicon NPN Power Transistor

2SCR587D3

DESCRIPTION

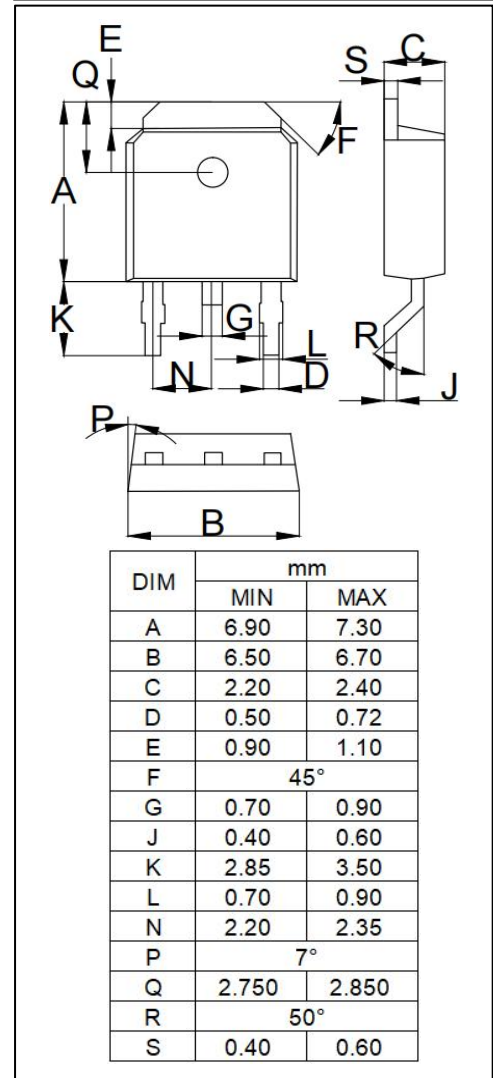
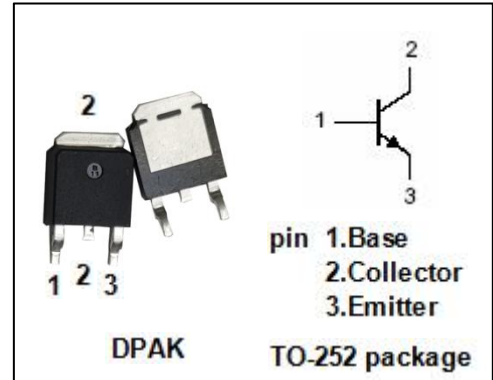
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = 120V(\text{Min.})$
- Low Collector Saturation Voltage
: $V_{CE(sat)} = 1.2V(\text{Max.}) @ I_C = 1A$
- Complement to Type 2SCR587D3
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for low frequency power amplifier applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	120	V
V_{CEO}	Collector-Emitter Voltage	120	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	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 0.1mA; I _B = 0	120	--	--	V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	120	--	--	V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 0.1mA; I _C = 0	6	--	--	V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =1A; I _B = 0.1A	--	0.06	1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V; I _E = 0	--	--	1	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0	--	--	1	μA
h _{FE}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	100	--	200	

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