

isc Silicon NPN Power Transistor
2SC5886A
DESCRIPTION

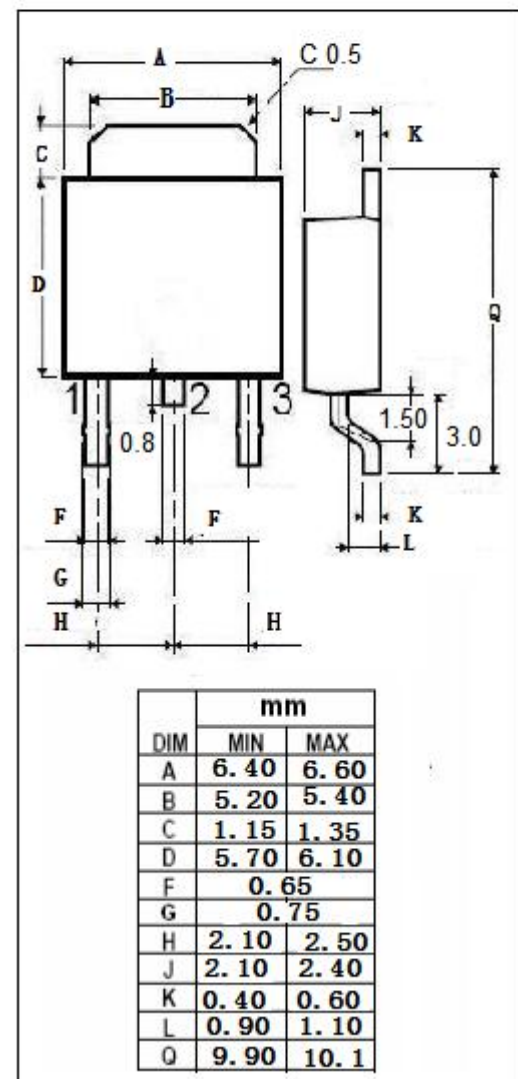
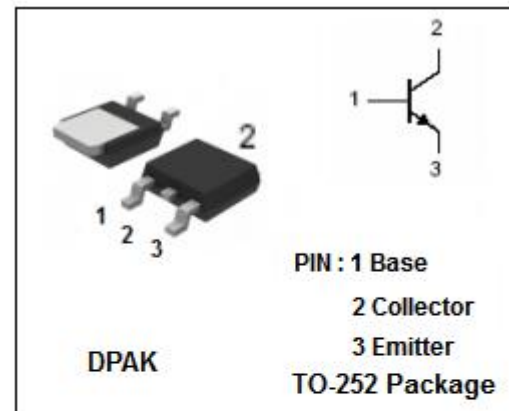
- High switching speed time
- Low collector-to-emitter saturation voltage
- Fast switching speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High-Speed Switching Applications
- DC/DC Converter Applications

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	120	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	9	V
I _C	Collector Current-Continuous	5	A
I _{CM}	Collector Current-peak	10	A
I _B	Base Current	0.5	A
P _C	Collector Power Dissipation T _a =25°C	1.0	W
	Collector Power Dissipation T _c =25°C	20	
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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ELECTRICAL CHARACTERISTICS

T_c=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.6A; I _B = 32mA			0.22	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1.6A; I _B = 32mA			1.10	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	50			V
I _{CBO}	Collector Cutoff Current	V _{CB} = 120V; I _E = 0			100	nA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 9V; I _C = 0			100	nA
h _{FE1}	DC Current Gain	I _C = 0.5A; V _{CE} = 2V	400		1000	
h _{FE2}	DC Current Gain	I _C = 1.6A; V _{CE} = 2V	200			

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