

isc Silicon PNP Power Transistor

2SA1261

DESCRIPTION

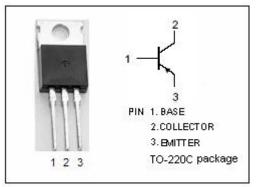
- Low Collector Saturation Voltage-
- : V_{CE(sat)}= -0.6V(Max.)@I_C= -5A
- Fast Switching Speed
- Complement to Type 2SC3157
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

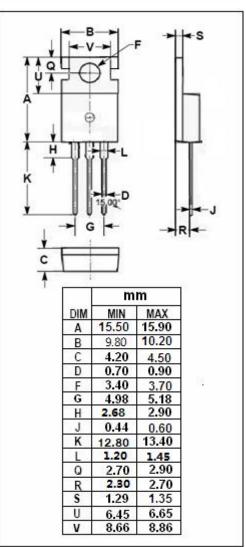
APPLICATIONS

 Developed for high-voltage high-speed switching, and is ideal for use as a driver in devices such as switching reglators, DC/DC converters, and high frequency power amplifiers.

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-100	V	
V _{CEO}	Collector-Emitter Voltage	-100	V	
V _{EBO}	Emitter-Base Voltage	-7.0	V	
Ι _C	Collector Current-Continuous	-10	A	
Ісм	Collector Current-Peak	-20	А	
I _B	Base Current-Continuous	-3.5	А	
Pc	Collector Power Dissipation @ $T_a=25^{\circ}C$ 1.5		w	
	Collector Power Dissipation @ T _c =25℃	60	vv	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)







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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
VCEO(SUS)	Collector-Emitter Sustaining Voltage	Ic= -5.0A; I _B = -0.5A, L=1mH	-100		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5.0A; I _B = -0.5A		-0.6	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5.0A; I _B = -0.5A		-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E = 0		-10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-10	μA
h _{FE-1}	DC Current Gain	Ic= -0.5A; Vc= -5V	40	200	
h _{FE-2}	DC Current Gain	I _C = -3.0A; V _{CE} = -5V	40	200	
h _{FE-3}	DC Current Gain	I _C = -5.0A; V _{CE} = -5V	20		

h_{FE-2} Classifications

М	L	к
40-80	60-120	100-200

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