

ISC Silicon NPN Power Transistor

DESCRIPTION

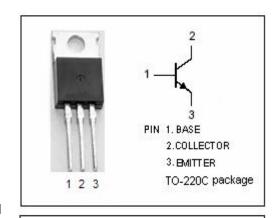
- High Collector Current: I_C= 7A
- · Low Collector Saturation Voltage
 - : V_{CE(sat)}= 0.5V(Max)@I_C= 5A
- Complement to Type 2SB708
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

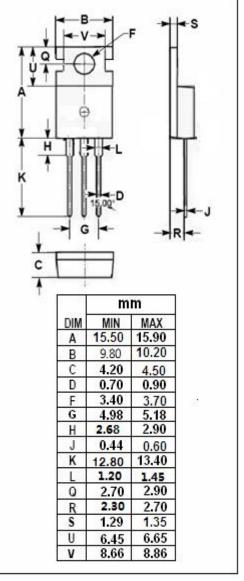
APPLICATIONS

• Designed for low-frequency power amplifiers and low-speed switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	100	V	
V _{CEO}	Collector-Emitter Voltage	100	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	7	Α	
Ісм	Collector Current-Peak	15	Α	
I _B	Base Current-Continuous	3.5	Α	
Pc	Total Power Dissipation @ Tc=25℃	40	W	
	Total Power Dissipation @ T _a =25℃	2		
TJ	Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	







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2SD569

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	80			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 80V; I _E = 0			10	μА
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА
h _{FE-1}	DC Current Gain	I _C = 3A; V _{CE} = 1V	40		200	
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 1V	20			

♦ h_{FE-1} Classifications

М	L	К
40-80	60-120	100-200

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