

isc Silicon PNP Power Transistor

DESCRIPTION

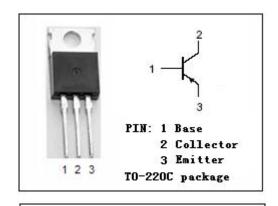
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -80V(Min)
- · Good Linearity of hFE
- · Low Collector Saturation Voltage
 - : $V_{CE(sat)}$ = -0.5V(Max)@I_C= -3A
- Complement to Type 2SD960
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

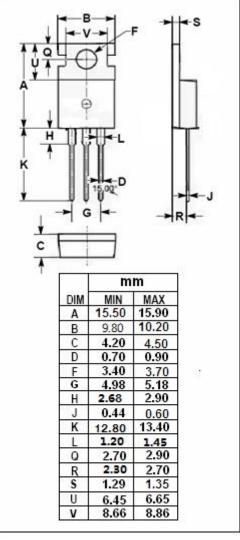


· Designed for power switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-130	V
VCEO	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-7	V
Ic	Collector Current-Continuous	-4	А
I _{CM}	Collector Current-Peak	-8	А
Pc	P _C Collector Power Dissipation @ T _C =25℃		W
Тл	Junction Temperature 150		$^{\circ}$ C
T _{stg}	T _{stg} Storage Temperature Range		$^{\circ}$ C







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2SB868

ELECTRICAL CHARACTERISTICS

T_C=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 = -3A; I _B = -0.15A			-0.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -3A; I _B = -0.15A			-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-50	μА
h _{FE-1}	DC Current Gain	I _C = -0.1A; V _{CE} = -2V	45			
h _{FE-2}	DC Current Gain	I _C = -1A; V _{CE} = -2V	60		260	

♦ h_{FE-2} Classifications

R	Q	Р
60-120	90-180	130-260

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