

isc Silicon PNP Power Transistor

2SA658

DESCRIPTION

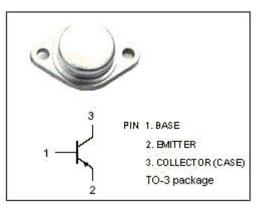
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= -50V(Min.)
- Complement to Type 2SC521
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

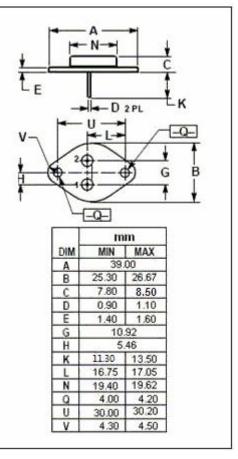
APPLICATIONS

- Power amplifier applications.
- Power switching applications.
- DC-DC converter applications.
- Regulator applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	age -70		
V _{CEO}	Collector-Emitter Voltage	-50	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ι _C	Collector Current-Continuous	-7	A	
IB	Base Current	-2	A	
Pc	Collector Power Dissipation @Tc=25°C	50	w	
Tj	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-65~150	°C	





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; I _B = 0	-50			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -1A			-2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -1A			-2.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = -70V; I _E = 0			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-5	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	30		300	
h _{FE-2}	DC Current Gain	Ic= -5A; V _{CE} = -5V	15			
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		150		pF
f⊤	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -10V		5		MHz

Notice:

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