

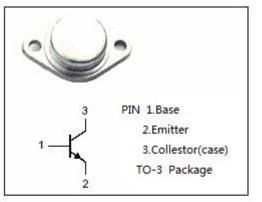
isc Silicon NPN Power Transistors

2SD188

DESCRIPTION

With TO-3 package

- · Large current capability
- Wide area of safe operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

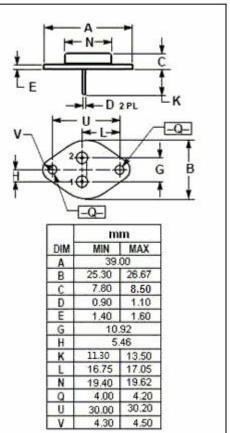


APPLICATIONS

For audio frequency output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{сво}	Collector-Base Voltage	100	V
V_{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	6	V
lc	Collector Current-Continuous	7	A
Pc	Collector Power Dissipation @Tc=75℃	60	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C





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ELECTRICAL CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =10mA ;I _B =0	100			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =1mA ;I _E =0	100			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =1mA ;I _C =0	6			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =5A ; I _B =0.5A			2.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =5А ; I _B =0.5А			2.5	V
I _{CBO}	Collector cut-off current	V _{CB} =100V; I _E =0			0.1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =6V; I _C =0			0.1	mA
h _{FE}	DC current gain	I _C =3A ; V _{CE} =2V	30		120	
fT	Transition frequency	I _C =0.5A ; V _{CE} =10V		10		MHz

NOTICE:

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