

isc Silicon PNP Power Transistors

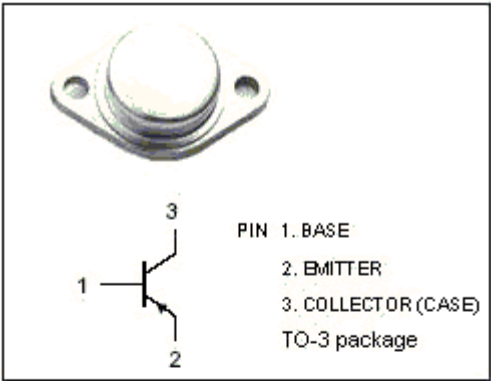
2SB653

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -100V(\text{Min})$
- High Power Dissipation-
: $P_C = 60W(\text{Max})@T_C=25^{\circ}C$
- Complement to Type 2SD673

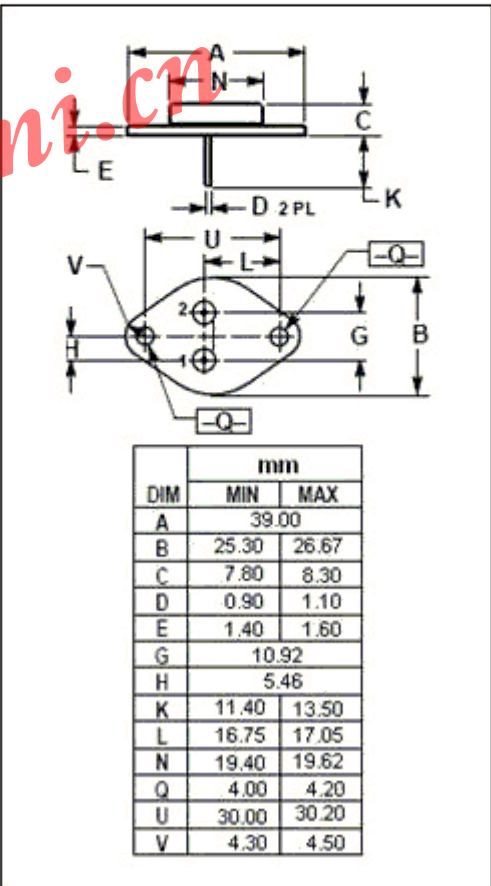
APPLICATIONS

- Designed for low frequency power amplifier applications.



ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-120	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-7	A
I_{CM}	Collector Current-Peak	-12	A
I_B	Base Current-Continuous	-2	A
P_C	Collector Power Dissipation @ $T_C=25^{\circ}C$	60	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature	-55~150	$^{\circ}C$



isc Silicon PNP Power Transistors

2SB653

ELECTRICAL CHARACTERISTICS

T_j=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; R _{BE} = ∞	-100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -5mA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -1A; V _{CE} = -5V			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -100V; I _E = 0			-1	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	60		200	
h _{FE-2}	DC Current Gain	I _C = -5A; V _{CE} = -5V	20			
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -5V		22		MHz
t _f	Fall Time	I _C = -0.6A; I _{B1} = -0.6A; I _{B2} = 0		0.5		μs

◆ h_{FE} Classifications

B	C
60-120	100-200