

isc Silicon PNP Power Transistors

2SA627

DESCRIPTION

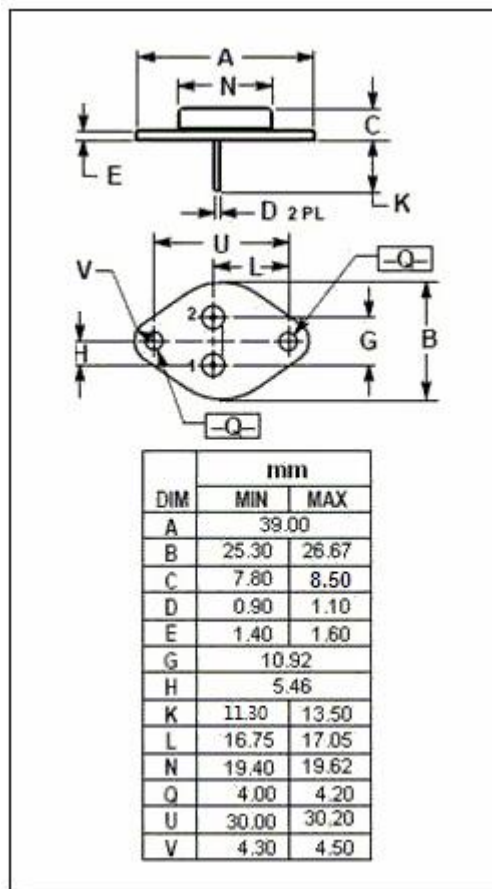
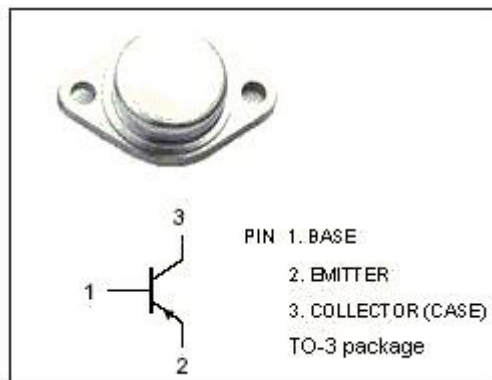
- Collector-Emitter Breakdown Voltage-
: $V_{(BR)CEO} = -80V(\text{Min.})$
- Low Collector Saturation Voltage-
: $V_{CE(sat)} = -1.5V(\text{Max.}) @ I_C = -5A$
- Good Linearity of h_{FE}
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Audio frequency power amplifier and low speed switching
- Suitable for output stages of 30 ~50 watts audio amplifier and DC-DC converter.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-7	A
I_{CM}	Collector Current-Peak	-12	A
P_C	Collector Power Dissipation @ $T_c=25^\circ\text{C}$	60	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-65~+150	$^\circ\text{C}$



isc Silicon PNP Power Transistors**2SA627****ELECTRICAL CHARACTERISTICS**T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-1.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -80V; I _E = 0			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -3V; I _C = 0			-0.5	mA
h _{FE}	DC Current Gain	I _C = -2A; V _{CE} = -5V	30		120	
C _{OB}	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		300		pF
f _T	Current-Gain—Bandwidth Product	I _C = -0.2A; V _{CE} = -10V		10		MHz

◆ **h_{FE} Classifications**

W	M	L
30-60	45-90	60-120

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