

Silicon PNP Power Transistors

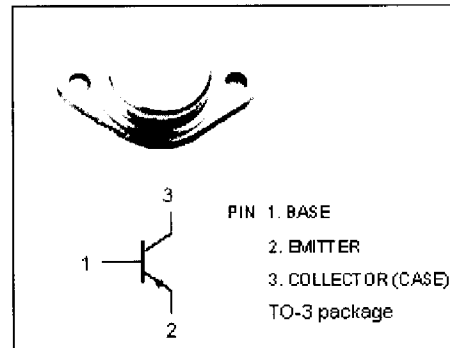
2SA627

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}

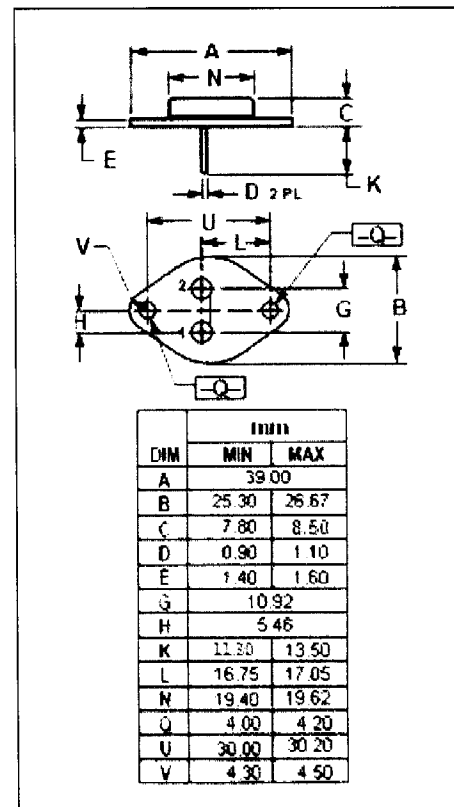
APPLICATIONS

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

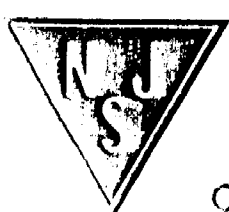


ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

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	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

$T_j=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -5\text{A}; I_B = -0.5\text{A}$			-1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -5\text{A}; I_B = -0.5\text{A}$			-1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -80\text{V}; I_E = 0$			-0.1	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -3\text{V}; I_C = 0$			-0.5	mA
h_{FE}	DC Current Gain	$I_C = -2\text{A}; V_{CE} = -5\text{V}$	30		120	
C_{OB}	Output Capacitance	$I_E = 0; V_{CB} = -10\text{V}; f = 1\text{MHz}$		300		pF
f_T	Current-Gain—Bandwidth Product	$I_C = -0.2\text{A}; V_{CE} = -10\text{V}$		10		MHz

◆ h_{FE} Classifications

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