New Jersey Semi-Conductor Products, Inc.

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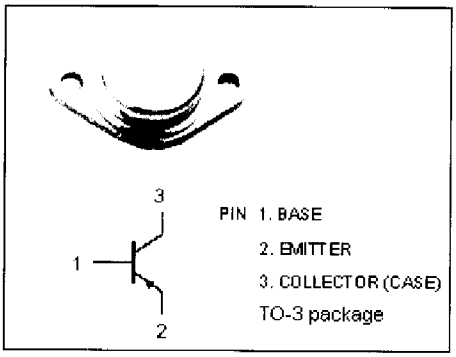
Silicon PNP Power Transistor — 2SA663

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= -80V(Min.)
- Collector-Emitter Saturation Voltage-
  : $V_{CE(sat)}$= -2.3V(Max.)@ I_C= -5A
- Complement to Type 2SC793

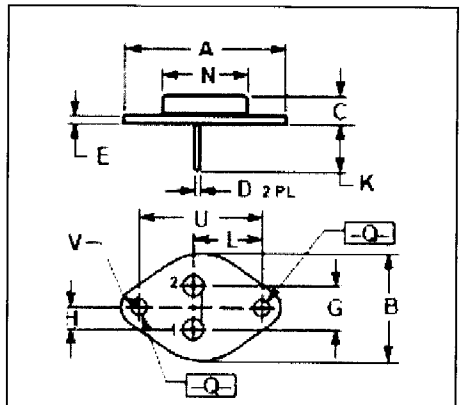


APPLICATIONS

- Designed for power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

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_E	Emitter Current-Continuous	7	A
P_C	Collector Power Dissipation @T_C=25℃	60	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-65~150	℃



DIM	mm MIN	MAX
A	39.00	
B	25.30	26.67
C	7.80	8.50
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.80	13.50
L	16.75	17.05
N	19.40	19.62
Q	4.00	4.20
U	30.00	30.20
V	4.30	4.50

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Quality Semi-Conductors

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	-80			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= -1mA; I_C= 0	-5			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -5A; I_B= -1A			-2.3	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= -2A; V_{CE}= -5V			-1.2	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -50V; I_E= 0			-0.1	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0			-1	mA
h_{FE-1}	DC Current Gain	I_C= -1A; V_{CE}= -5V	30		200	
h_{FE-2}	DC Current Gain	I_C= -5A; V_{CE}= -5V	15			
C_{OB}	Collector Output Capacitance	I_E= 0; V_{CB}= -10V; f= 1MHz		500		pF
f_T	Current-Gain—Bandwidth Product	I_E= 1A; V_{CE}= -5V		6		MHz

◆ **h_{FE-1} Classifications**

R	Y	BL
30-70	50-120	85-200