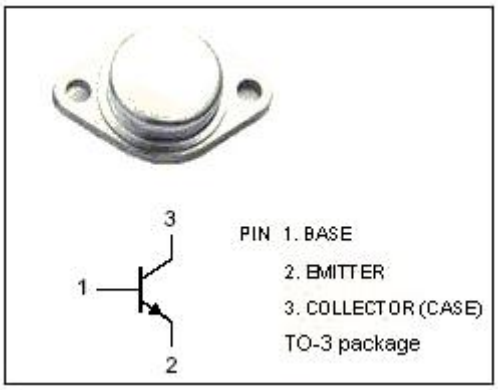
isc Silicon NPN Power Transistor 2SC2489

DESCRIPTION

Good Linearity of h_{FE}

- Collector-Emitter Sustaining Voltage-
  : $V_{CEO(SUS)}$= 150V (Min)
- Wide Area of Safe Operation
- Complement to Type 2SA1065
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

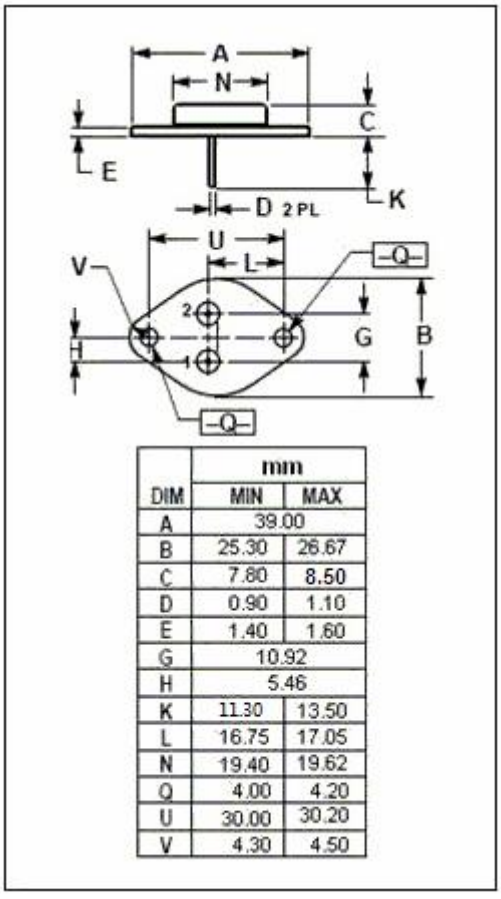


APPLICATIONS

- Designed for AF amplifier,high power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	MAX	UNIT
V_{CBO}	Collector-Base Voltage	150	V
V_{CEO}	Collector-Emitter Voltage	150	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	10	A
I_{CM}	Collector Current-Peak	15	A
P_C	Collector Power Dissipation @T_C=25℃	120	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-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	11.30	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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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= 50mA ; I_E= 0	150			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 8A; I_B= 0.8A			2.0	V
$V_{BE(on)}$	Base-Emitter On Voltage	I_C= 10A ; V_{CE}= 5V			2.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 70V; I_E= 0			1	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 5V; I_C= 0			2	mA
h_{FE-1}	DC Current Gain	I_C= 2A ; V_{CE}= 5V	40		280	
h_{FE-2}	DC Current Gain	I_C= 10A ; V_{CE}= 5V	30			
f_T	Current-Gain—Bandwidth Product	I_C= 0.5A ; V_{CE}= 10V		50		MHz

◆ **h_{FE-1} Classifications**

R	Q	P	O
40-80	60-120	90-180	140-280