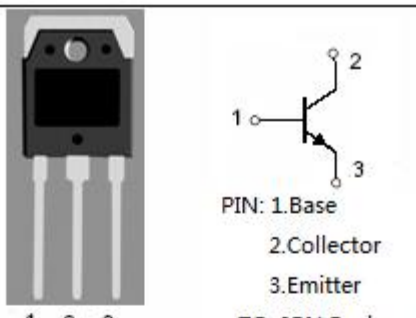
isc Silicon NPN Power Transistor — 2SC6145A

DESCRIPTION

- High frequency multi emitter transistor
- Small package(TO-3P)
- High power handling capacity ,160W
- Complement to Type 2SA2223A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

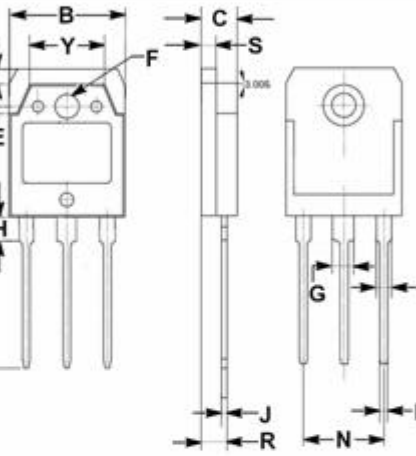


APPLICATIONS

- Signal transistors for audio amplifiers
- Audio market

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	260	V
V_{CEO}	Collector-Emitter Voltage	260	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	15	A
I_B	Base Current-Continuous	4.0	A
P_C	Collector Power Dissipation @ T_C=25℃	160	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	mm MAX
A	19.60	20.30
B	15.50	15.70
C	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	19.80	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.20
Y	9.90	10.10

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I_C= 25mA; I_B= 0	260			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C=5A; I_B= 0.5A			0.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 260V; I_E= 0			10	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 5V; I_C= 0			10	μA
h_{FE}	DC Current Gain	I_C= 5A; V_{CE}= 4V	40		140	
C_{OB}	Output Capacitance	I_E=0; V_{CB}= 10V; f= 1.0MHz		250		pF
f_T	Current-Gain—Bandwidth Product	I_C=2A ; V_{CE}= 12V		60		MHz

◆ **h_{FE} Classifications**

R	O	Y
40-80	50-100	70-140