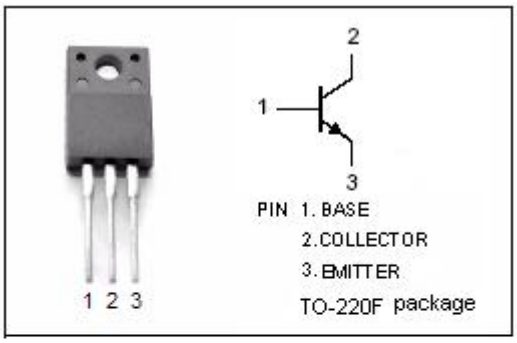
isc Silicon NPN Power Transistor — 2SC4883A

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
  : $V_{(BR)CEO}$= 180V(Min)
- Complement to Type 2SA1859A
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

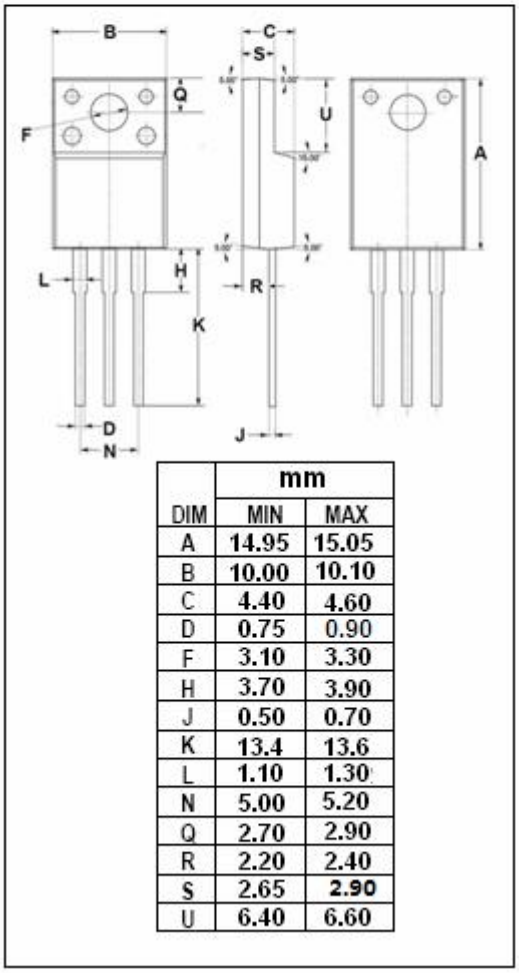


APPLICATIONS

- For audio output driver and TV velocity-modulation applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	180	V
V_{CEO}	Collector-Emitter Voltage	180	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	2	A
I_B	Base Current-Continuous	1	A
P_C	Collector Power Dissipation @ T_C=25℃	20	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	mm MAX
A	14.95	15.05
B	10.00	10.10
C	4.40	4.60
D	0.75	0.90
F	3.10	3.30
H	3.70	3.90
J	0.50	0.70
K	13.4	13.6
L	1.10	1.30
N	5.00	5.20
Q	2.70	2.90
R	2.20	2.40
S	2.65	2.90
U	6.40	6.60

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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= 10mA; I_B= 0	180			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 0.7A; I_B= 70mA			1.0	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 180V; I_E= 0			10	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 6V; I_C= 0			10	μA
h_{FE}	DC Current Gain	I_C= 0.7A; V_{CE}= 10V	60		240	
f_T	Current-Gain—Bandwidth Product	I_E= -0.7A; V_{CE}= 12V		120		MHz
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= 10V; f_{test}= 1.0MHz		30		pF
Switching times						
t_{on}	Turn-on Time	I_C= 1A ;I_{B1}= -I_{B2}= -0.1A; R_L= 20Ω ; V_{CC}= 20V		0.5		μs
t_{stg}	Storage Time			1.5		μs
t_f	Fall Time			0.5		μs

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