

isc Silicon NPN Power Transistor

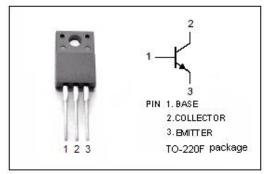
2SC3851

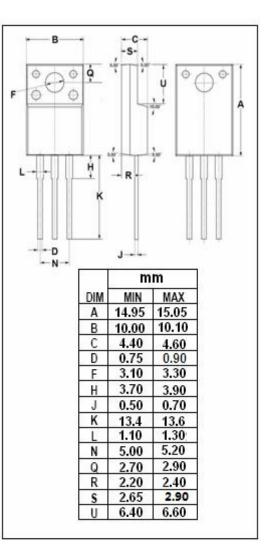
DESCRIPTION

- Collector-Emitter Breakdown Voltage-
 - : $V_{(BR)CEO}$ = 60V(Min)
- DC Current Gain-
- : h_{FE}= 40(Min)@ I_C= 1A
- Complement to Type 2SA1488
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for audio and general purpose applications.





ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

80 60 6	v v
	V
6	
Ŭ	V
4	A
1	A
25	W
150	°C
-55~150	°C
-	25

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ELECTRICAL CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA; I _B = 0	60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			0.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = 80V; I _E = 0			100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			100	μA
hfe	DC Current Gain	Ic= 1A; Vc== 4V	40		320	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		60		pF
fT	Current-Gain—Bandwidth Product	I _E = -0.2A; V _{CE} = 12V		15		MHz

Switching Times

ton	Turn-On Time		0.2	μ S
t _{stg}	Storage Time	I _C = 2A; I _{B1} = -I _{B2} = 0.2A; V _{CC} = 12V; R _L = 6 Ω	1.0	μ S
t _f	Fall Time		0.3	μ S

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