

isc Silicon NPN Power Transistor

DESCRIPTION

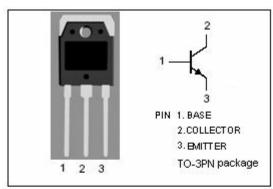
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 80V(Min)
- · DC Current Gain-
 - : h_{FE}= 50(Min)@ I_C= 2A
- Complement to Type 2SA1489
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

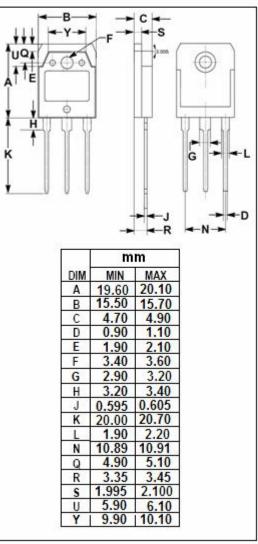


• Designed for audio and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	120	V
V_{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	6	Α
l _Β	Base Current-Continuous	3	Α
Pc	Collector Power Dissipation @T _C =25℃	60	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55~150	°C







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2SC3853

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

1)-25 C 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 _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			1.5	V			
І _{СВО}	Collector Cutoff Current	V _{CB} = 120V; I _E = 0			100	μА			
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			100	μА			
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 4V	50						
f _T	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 12V		20		MHz			
Switching Times									
t _{on}	Turn-On Time			0.5		μS			
tstg	Storage Time	I _C = 3A; I _{B1} = -I _{B2} = 0.3A; V _{CC} = 30V; R _L = 10 Ω		2.5		μS			
t _f	Fall Time			0.6		μs			

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