

isc Silicon NPN Power Transistor

2SC4386

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 120V(Min)
- · Good Linearity of hFE
- · Complement to Type 2SA1671
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

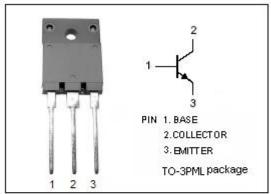


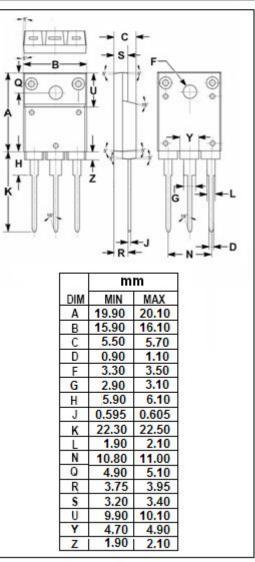
APPLICATIONS

Designed for audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	160	V
Vceo	Collector-Emitter Voltage	120	V
V_{EBO}	Emitter-Base Voltage	6	٧
Ic	Collector Current-Continuous	8	Α
lв	Base Current-Continuous	3	Α
P _C	Collector Power Dissipation @ T _C =25 ℃	75	W
TJ	Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	120			V			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.5	V			
I _{CBO}	Collector Cutoff Current	V _{CB} = 160V; I _E = 0			10	μА			
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			10	μА			
h _{FE}	DC Current Gain	I _C = 3A; V _{CE} = 4V	50						
f⊤	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 12V		20		MHz			
Switching times									
t _{on}	Turn-on Time			0.3		μ \$			
t _{stg}	Storage Time	I_C = 4A, R_L = 10 Ω , I_{B1} = - I_{B2} = 0.4A, V_{CC} = 40V		3.4		μς			
tf	Fall Time			0.4		μ \$			

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