

isc Silicon NPN Power Transistor

2SC4388

DESCRIPTION

- Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 180V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SA1673100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

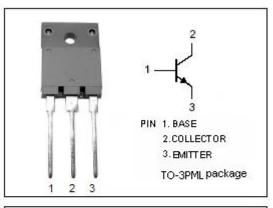


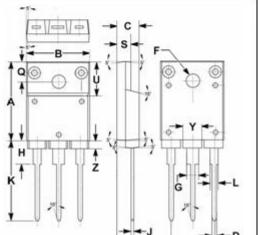
· Designed for audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	180	V
V _{EBO}	Emitter-Base Voltage	6	V
Ι _C	Collector Current-Continuous	15	A
I _B	Base Current-Continuous	4	A
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$		W
TJ	T _J Junction Temperature		°C
T _{stg}	Γ _{stg} Storage Temperature Range -55~1		°C

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R

	mm	
DIM	MIN	MAX
Α	19.90	20.10
В	15.90	16.10
С	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.10
Н	5.90	6.10
J	0.595	0.605
к	22.30	22.50
	1.90	2.10
L N	10.80	11.00
0	4.90	5.10
R	3.75	3.95
S	3.20	3.40
U	9.90	10.10
Y	4.70	4.90
Ζ	1.90	2.10



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^\circ\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 50mA; I _B = 0	180			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			2.0	V
Ісво	Collector Cutoff Current	V _{CB} = 200V; I _E = 0			10	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			10	μA
h _{FE}	DC Current Gain	I _C = 3A; V _{CE} = 4V	50			
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		300		pF
f⊤	Current-Gain—Bandwidth Product	I _E = -0.5A; V _{CE} = 12V		20		MHz
Switching times						

Switching times

t _{on}	Turn-on Time			0.5	μ S
t _{stg}	Storage Time	I_{C} = 10A; R_{L} = 4 Ω ; V_{CC} = 40V; I_{B1} = - I_{B2} = 1A		1.8	μ S
tf	Fall Time			0.6	μ S

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• h_{FE} Classifications

0	Р	Y		
50-100	70-140	90-180		



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