

isc Silicon NPN Power Transistor

KTC1003

DESCRIPTION

- Large Collector Current Capability-
- : I_C= 4A (Max)
- Collector Power Dissipation-: P_C= 30W(Max)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

SYMBOL

Vсво

VCEO

VEBO

lc

Ісм

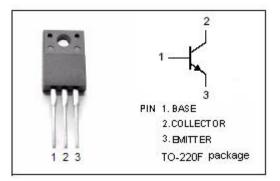
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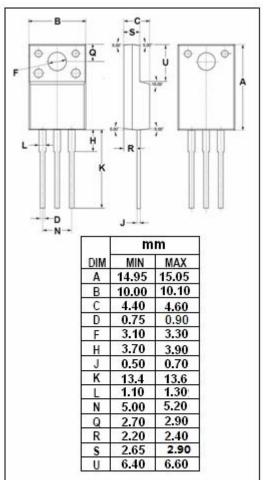
Pc

ТJ

Tstg

Designed for B/W TV horizontal deflection output applications





ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

Collector-Base Voltage

Collector-Emitter Voltage

Collector Current-Continuous

Emitter-Base Voltage

Collector Current-Peak

Base Current-Continuous

Collector Power Dissipation

Storage Temperature Range

Junction Temperature

@ Tc=25°C

PARAMETER

VALUE

200

60

5

4

10

1

30

150

-55~150

UNIT

V

V

V

А

А

А

W

°C

°C

isc website: <u>www.iscsemi.com</u>

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA ; I _B = 0	60			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.4A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.4A			1.5	V
І _{СВО}	Collector Cutoff Current	V _{CB} = 170V ; I _E =0			10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V ; I _C =0			10	μA
hfe-1	DC Current Gain	Ic= 1A ; Vce= 5V	30		150	
h _{FE-2}	DC Current Gain	I _C = 4A ; V _{CE} = 5V	20			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 5V		8		MHz

NOTICE:

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