

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

2SD2095

DESCRIPTION

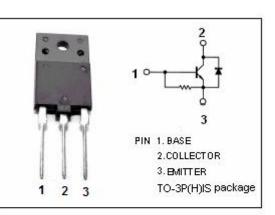
- High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- High Switching Speed
- Low Saturation Voltage
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

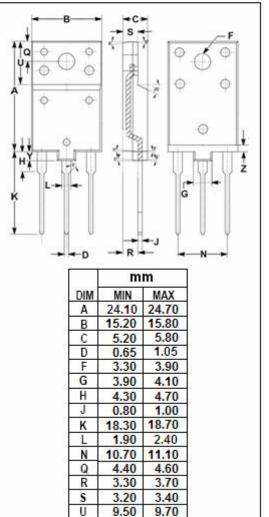
APPLICATIONS

· Designed for color TV horizontal output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	1500	v				
V _{CEO}	Collector-Emitter Voltage	600	V				
V _{EBO}	Emitter-Base Voltage	5	V				
lc	Collector Current- Continuous	5	A				
Ι _Β	Base Current- Continuous	2.5	А				
Pc	Collector Power Dissipation @ T _c =25℃	50	W				
TJ	Junction Temperature	150	Ĉ				
T _{stg}	Storage Temperature Range	-55~150	Ĉ				







1.90

1.40

2.10

1.60

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

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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)EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3.5A; I _B = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3.5A; I _B = 0.8A			1.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μA
h _{FE}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	8			
VECF	C-E Diode Forward Voltage	I⊧= 5A			2.0	V
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A ; V _{CE} = 10V		3		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f _{test} =1.0MHz		105		pF
t _f	Fall Time	I _{CP} = 3.5A, I _{B1(end)} = 0.8A		0.5	1.0	μ S

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