



ISC Silicon NPN Power Transistor

DESCRIPTION

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

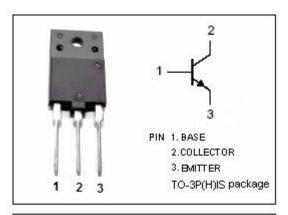
APPLICATIONS

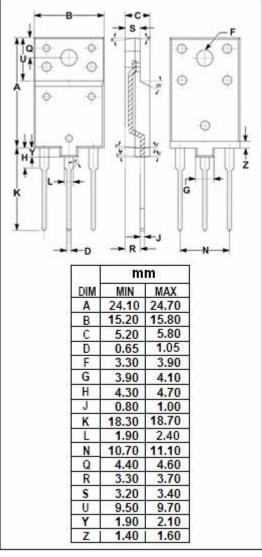
Color TV horizontal output applications



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

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	6	Α
lв	Base Current- Continuous	3	Α
Pc	Collector Power Dissipation @ T _c =25℃	50	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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2SD1546

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			5.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.5	V
І _{СВО}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μА
ІЕВО	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8			
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		165		pF
t _f	Fall Time	I _{CP} = 3A, I _{B1(end)} = 0.8A		0.5	1.0	μ S

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