



isc Silicon NPN Power Transistor

DESCRIPTION

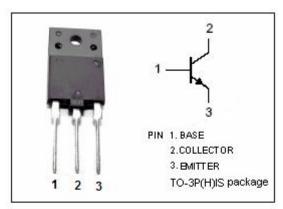
- · High Breakdown Voltage-
- : V_{CBO}= 1500V (Min)
- · High Switching Speed
- · Low Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

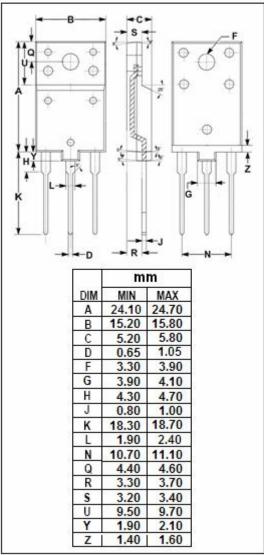
APPLICATIONS

Color TV horizontal output applications



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
I _C	Collector Current- Continuous	2.5	Α
lΒ	Base Current- Continuous	1	Α
Pc	Collector Power Dissipation @ T _c =25℃	40	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}\!\mathbb{C}$







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2SD1543

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.6A			8.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.6A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 0.5A; 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		95		pF
t _f	Fall Time	I _{CP} = 2A, I _{B1(end)} = 0.6A		0.5	1.0	μ s

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