

ISC Silicon NPN Power Transistor

2SD1548

DESCRIPTION

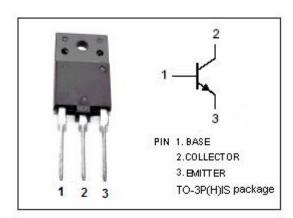
- · High Breakdown Voltage-
- : V_{CBO}= 1400V (Min)
- · High Switching Speed
- · Low Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

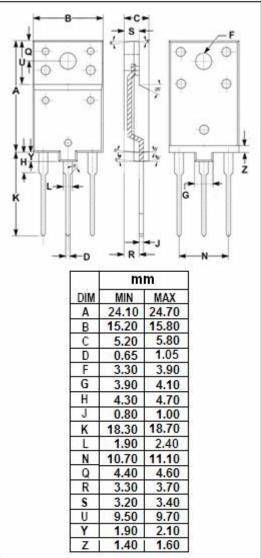
APPLICATIONS

- Color TV horizontal output applications.
- Switching regulator output applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
Vceo	Collector-Emitter Voltage	600	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current- Continuous	10	Α
Ι _Β	Base Current- Continuous	5	Α
Pc	Collector Power Dissipation @ T _C =25℃	50	W
Тл	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	°C







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 2A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 8A; I _B = 2A			1.6	V
I _{CBO}	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 = 2A; V _{CE} = 5V	8			
f _T	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} = 7A, I _{B1(end)} = 1.5A			1.0	μ S

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