

isc Silicon NPN Power Transistor

2SD1549

DESCRIPTION

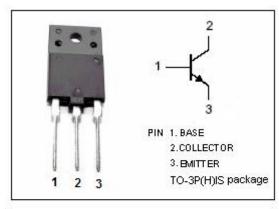
- Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 800V (Min)
- · High Switching Speed
- · Low Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

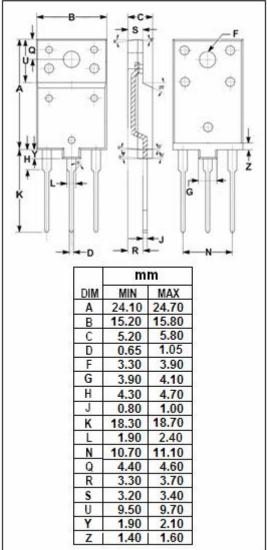


 Designed for use in horizontal deflection circuits of color TV receivers.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1000	V	
V _{CEO}	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current- Continuous	5	Α	
Ісм	Collector Current-Peak	8	Α	
I _B	Base Current- Continuous	2.5	А	
Pc	Collector Power Dissipation @ T _C =25℃	50	W	
Тл	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C	







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 10mA; I _B = 0	800			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5.0V ; I _C = 0			1.0	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8		30	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 0.1MHz		165		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V; f _{test} = 1.0MHz		3		MHz
t _f	Fall Time	I _{CP} = 4A, I _{B1(end)} = 0.8A			1.0	μ \$

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