

isc Silicon NPN Power Transistor

2SD1553

DESCRIPTION

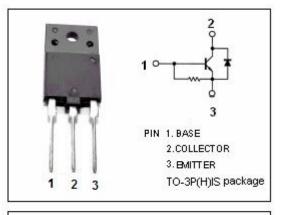
- High Breakdown Voltage-
- : V_{CBO}= 1500V (Min)
- High Switching Speed
- Low Saturation Voltage
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

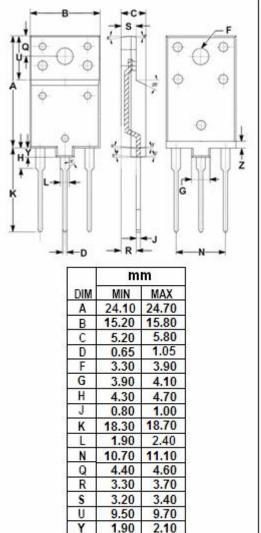
APPLICATIONS

· Designed for color TV horizontal output applications

ABSOLUTE WAXIMUW RATINGS(Ta=25 C)							
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				
Ι _C	Collector Current- Continuous	2.5	A				
IB	Base Current- Continuous	1	А				
Pc	Collector Power Dissipation @ Tc=25℃	40	W				
TJ	Junction Temperature	150	Ĉ				
T _{stg}	Storage Temperature Range	-55~150	°C				
	I.						

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)





isc website: www.iscsemi.com

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1.40

1.60



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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\mathrm{C}$ 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 = 2A; I _B = 0.6A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.6A			1.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μA
hfe	DC Current Gain	Ic= 0.5A ; Vc== 5V	8			
V _{ECF}	C-E Diode Forward Voltage	I _F = 2.5A			2.0	V
f⊤	Current-Gain—Bandwidth Product	Ic= 0.1A ; Vce= 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	μs

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