

isc Silicon NPN Power Transistor

2SD1554

DESCRIPTION

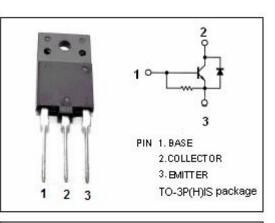
- High Breakdown Voltage-
- : V_{CBO}= 1500V (Min)
- High Switching Speed
- Low Saturation Voltage
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

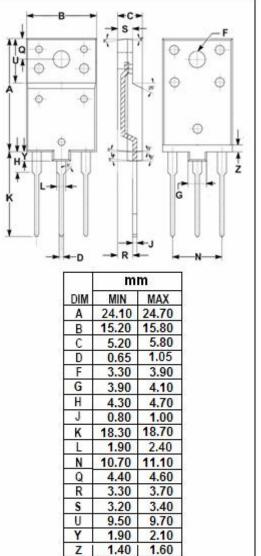
APPLICATIONS

· Designed for color TV horizontal output applications

	VALUE	UNIT	
Collector-Base Voltage	1500	V	
Collector-Emitter Voltage	600	V	
Emitter-Base Voltage	5	V	
Collector Current- Continuous	3.5	A	
Base Current- Continuous	1	A	
Collector Power Dissipation @ T _c =25 $^{\circ}$ C	40	W	
Junction Temperature	150	°C	
Storage Temperature Range	-55~150	°C	
	Collector-Emitter Voltage Emitter-Base Voltage Collector Current- Continuous Base Current- Continuous Collector Power Dissipation @ Tc=25°C Junction Temperature	Collector-Emitter Voltage600Emitter-Base Voltage5Collector Current- Continuous3.5Base Current- Continuous1Collector Power Dissipation @ Tc=25°C40Junction Temperature150	







isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25\,^\circ\!\!\!\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР.	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 = 3A; I _B = 0.8A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.8A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μA
h _{FE}	DC Current Gain	Ic= 0.5A ; Vce= 5V	8			
V_{ECF}	C-E Diode Forward Voltage	I _F = 3.5A			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} = 3A , I _{B1(end)} = 0.8A		0.5	1.0	μ S

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