

isc Silicon NPN Power Transistor

2SD2253

DESCRIPTION

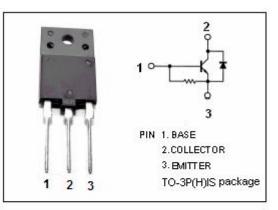
- High Breakdown Voltage-
 - : V_{CBO}= 1700V (Min)
- High Switching Speed
- Low Saturation Voltage
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

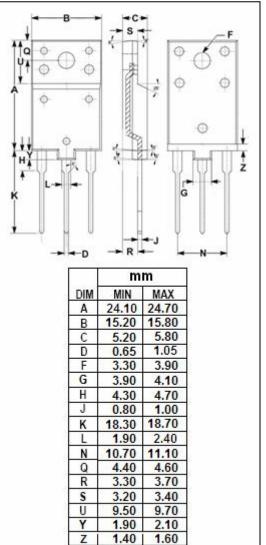
APPLICATIONS

· Designed for color TV horizontal output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1700	v	
Vceo	Collector-Emitter Voltage	600	V	
V _{EBO}	Emitter-Base Voltage	5	V	
lc	Collector Current- Continuous	6	A	
Іср	Collector Current- Pulse	12	A	
Ι _Β	Base Current- Continuous	3	A	
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$	50	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	





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



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25\,^{\circ}\!\!\!\!\!\!\mathrm{C}$ 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 = 5A; I _B = 1A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1A			1.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μA
Іево	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0	66		200	mA
h _{FE}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	8		28	
VECF	C-E Diode Forward Voltage	I⊧= 5A			2.0	V
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		250		pF

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