

ISC Silicon NPN Power Transistor

2SD1541

DESCRIPTION

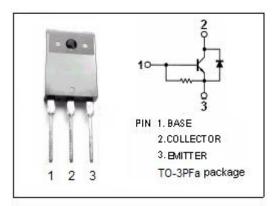
- · Collector-Base Breakdown Voltage-
 - : V_{CBO}= 1300V (Min)
- · High Switching Speed
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

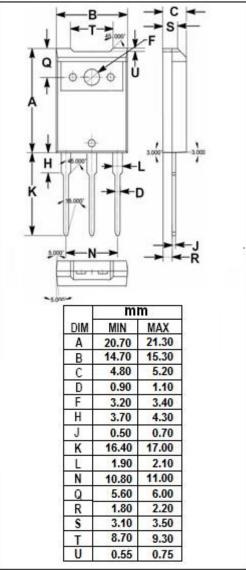
APPLICATIONS

· Designed for horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector- Base Voltage	1300	V
V _{CES}	Collector-Emitter Voltage	1300	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	3	Α
I _{CM}	Collector Current-Peak	10	Α
Івм	Base Current-Peak	3.5	Α
Pc	Collector Power Dissipation @ T _C =25 ℃	50	W
TJ	Junction Temperature	130	$^{\circ}$ C
T _{stg}	Storage Temperature Range -55~130		$^{\circ}$ C







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	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 = 0.75A			5.0	V			
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.75A			1.5	V			
I _{CBO}	Collector Cutoff Current	V _{CB} = 750V; I _E = 0 V _{CB} = 1300V; I _E = 0			50 1.0	μA mA			
h _{FE}	DC Current Gain	I _C = 2A; V _{CE} = 10V	4		12				
V _{ECF}	C-E Diode Forward Voltage	I _F = 4A			2.2	V			
Switching times									
t _{stg}	Storage Time	1 = 20 1 = 0.750 1 = 5 1			7.0	μ \$			
tf	Fall Time	I _C = 2A, I _{B(end)} = 0.75A; L _{leak} = 5 μ H			0.75	μS			

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