

isc Silicon PNP Power Transistor

2SB553

DESCRIPTION

- Low Collector Saturation Voltage
 :V_{CE(sat)}= -0.4(V)(Max)@I_C= -4A
- Complement to Type 2SD553
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

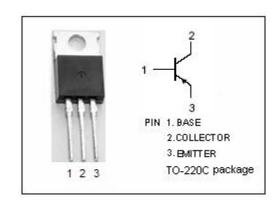
APPLICATIONS

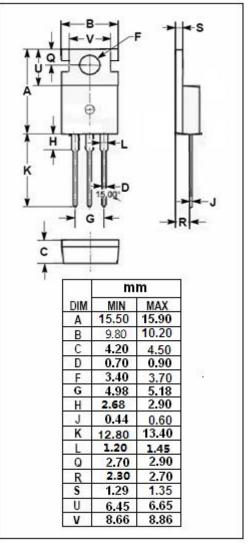


- · High current switching applications.
- · Power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	-70	V
V_{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-7	А
Pc	Total Power Dissipation @ T _a =25℃	1.5	
	Total Power Dissipation @ T _C =25℃	40	VV
TJ	Junction Temperature 15		°C
T _{stg}	Storage Temperature Range	-55~150	°C







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA; I _B = 0	-50			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-0.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -70V ; I _E = 0			-30	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-50	μА
h _{FE-1}	DC Current Gain	Ic= -1A; Vc== -1V	70		240	
h _{FE-2}	DC Current Gain	I _C = -4A ; V _{CE} = -1V	30			
f _T	Current-Gain—Bandwidth Product	I _C = -1A; V _{CE} = -4V		10		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f _{test} = 1MHz		250		pF

♦ h_{FE-1} Classifications

0	Υ		
70-140	120-240		

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