

isc Silicon NPN Power Transistor

2SD1680

DESCRIPTION

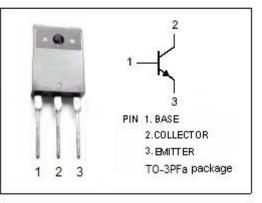
- Collector-Base Breakdown Voltage-
- : V_{(BR)CBO}= 330V(Min)
- High Power Dissipation
- High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

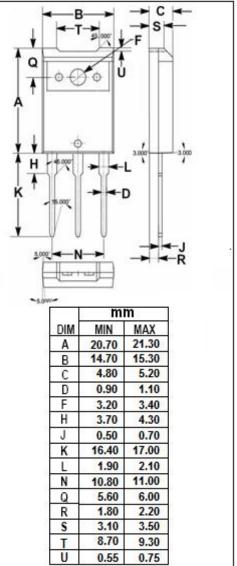
APPLICATIONS

• Designed for horizontal deflection output applications.

V _{CES} Co	PARAMETER Ollector-Base Voltage Ollector-Emitter Voltage	VALUE 330 330	UNIT V V
V _{CES} Co	ollector-Emitter Voltage		
		330	V
V _{CEO} Co	ollector-Emitter Voltage	200	V
V _{EBO} Er	nitter-Base Voltage	6	V
I _C Co	ollector Current-Continuous	7	А
I _{CP} Co	ollector Current-Pulse	10	А
	ollector Current-Pulse nrepetitive)	15	А
	ollector Power Dissipation $T_C=25^{\circ}C$	70	W
T _J Ju	inction Temperature	150	°C
T _{stg} St	orage Temperature	-55~150	°C

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	200		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A		1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A		1.2	V
I _{CES}	Collector Cutoff Current	V _{CE} = 330V; V _{BE} = 0; V _{CE} = 300V; V _{BE} = 0; T _a = 100°C		0.1 1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0		1.0	mA
h _{FE}	DC Current Gain	I _C = 5A; V _{CE} = 4V	15	45	
t _f	Fall Time	I _C = 5A; I _{B1} = 0.8A; V _{EB} = -5V, R _B =0.5 Ω		0.75	μ S



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