

isc Silicon NPN Power Transistor

2SD1651

DESCRIPTION

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

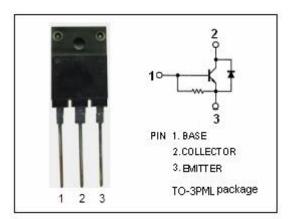
APPLICATIONS

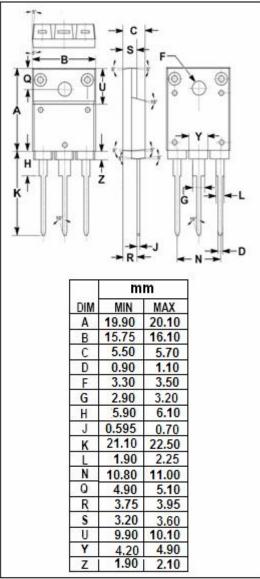


Designed for color TV horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1500	V	
Vceo	Collector-Emitter Voltage	800	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current- Continuous	5	А	
Іср	Collector Current-Peak	16	A	
Pc	Collector Power Dissipation @ T _C =25℃	60	W	
TJ	Junction Temperature	150	°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 = 10mA; R _{BE} = ∞	800			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	1500			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	7			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			5.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V ; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V ; I _C = 0	40		130	mA
h _{FE}	DC Current Gain	Ic= 1A; VcE= 5V	8			
V _{ECF}	C-E Diode Forward Voltage	I _F = 5A			2.0	V
t _f	Fall Time	I_{C} = 4A , I_{B1} = 0.8A ; I_{B2} = 1.6A R_{L} = 50 Ω ; V_{CC} = 200V			0.4	μ s

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