



ISC Silicon NPN Power Transistor

DESCRIPTION

- · High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- · High Switching Speed
- · Built-in Damper Diode
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

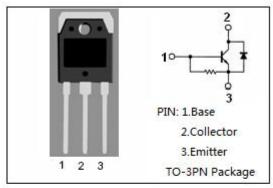


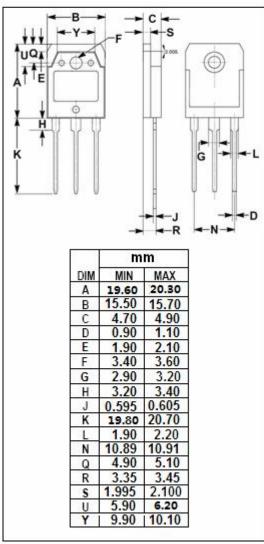
APPLICATIONS

• Designed for character display horizontal deflection output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CES}	Collector-Emitter Voltage	1500	V
V _{EBO}	Emitter-Base Voltage	6	V
I _{C(peak)}	Collector Current-Peak	7	A
Ic(surge)	Collector Current-Surge	16	A
I _D	C-E Diode Forward Current	7	А
Pc	Collector Power Dissipation @ T _C =25℃	50	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C







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2SC4744

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 400mA ; I _C = 0	6			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 1.25A			2.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 1.25A			1.5	V
I _{CES}	Collector Cutoff Current	V _{CE} = 1500V ; R _{BE} = 0			500	μА
h _{FE}	DC Current Gain	I _C = 1A ; V _{CE} = 5V			25	
V _{ECF}	C-E Diode Forward Voltage	I _F = 6A			2.0	V
t _f	Fall Time	I _{CP} = 5A , I _{B1} = 1A; I _{B2} = -2A			0.4	μ S

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