



isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
- : V_{CEO(SUS)} = 700V(Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

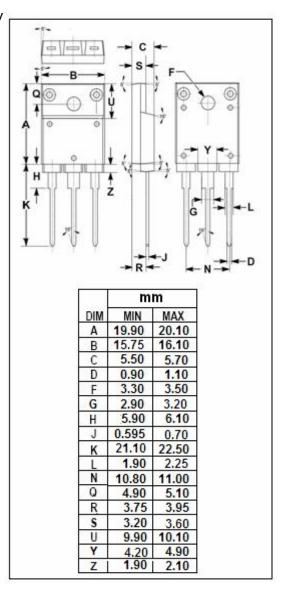
PIN 1. BASE 2.COLLECTOR 3. BMITTER TO-3PML package

APPLICATIONS

 Designed for use in horizontal deflection circuits of color TV receivers and line operated switch-mode applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
Vсво	Collector-Base Voltage	1300	V
V _{CEO}	Collector-Emitter Voltage	700	V
V _{EBO}	Emitter-Base Voltage	7	V
lc	Collector Current-Continuous	5	А
Ісм	Collector Current-Pulse	10	А
lв	Base Current-Continuous	1.5	А
Pc	Collector Power Dissipation @Tc=25°C	60	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$





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2SC3755

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 5mA; R _{BE} = ∞	700			V
V _(BR) CBO	Collector-Base Breakdown Voltage	Ic= 1mA; I _E = 0	1300			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			5.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 700V ; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μА
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	6		30	
h _{FE-2}	DC Current Gain	Ic= 1A; VcE= 5V	8	20		



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