

isc Silicon NPN Power Transistor

DESCRIPTION

- · High Collector-Emitter Breakdown Voltage-
 - $:V_{(BR)CEO} = 300V(Min)$
- DC Current Gain-
 - : h_{FE}= 40-200 @I_C= 10mA, V_{CE}= 10V
- High Current-Gain Bandwidth Product
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

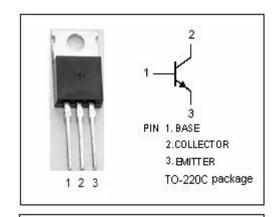


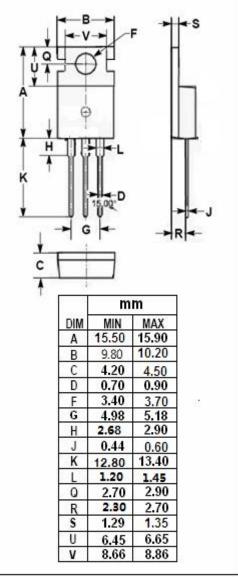
APPLICATIONS

 Designed for color TV chroma, video, audio output applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	200	mA
Ісм	Collector Current-Peak	700	mA
Pc	Collector Power Dissipation @ T _a =25°C	1.2	W
	Collector Power Dissipation @ T _C =25°C	15	VV
TJ	Junction Temperature 150		$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature Range -40		$^{\circ}\mathbb{C}$







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2SC1755

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 50mA; I _B = 5mA			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V ; I _E = 0			0.1	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	μА
h _{FE}	DC Current Gain	I _C = 10mA ; V _{CE} = 10V	40		200	
Сов	Output Capacitance	I _E = 0; V _{CB} = 50V; f _{test} = 1MHz			5.3	pF
f⊤	Current-Gain—Bandwidth Product	I _C = 10mA; V _{CE} = 30V	50			MHz

h_{FE} Classifications

С	D	E
40-80	60-120	100-200

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2