

ISC Silicon NPN Power Transistor

2SC3175

DESCRIPTION

- · Low Collector Saturation Voltage
- · High switching speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

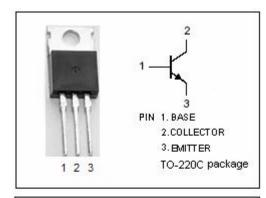


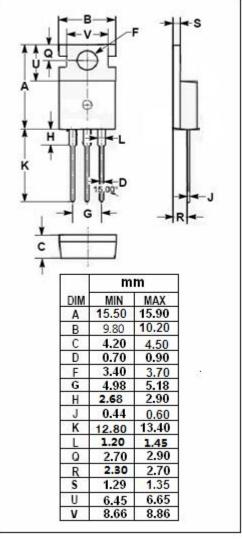
APPLICATIONS

 Especially suited for use in high definition CRT display(V_{CC}=12 to 24V)

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	400	V
V _{CEO}	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	7	Α
Ісм	Collector Current-Pulse	12	А
I _B	Base Current-Continuous	4	Α
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	50	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; 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 _{CBO}	Collector Cutoff Current	V _{CB} = 400V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} =6V; I _C = 0			100	μА
h _{FE-1}	DC Current Gain	Ic= 1A; Vc= 1V	15			
h _{FE-2}	DC Current Gain	I _C = 5A ; V _{CE} = 1V	10		50	
f⊤	Current-Gain—Bandwidth Product	I _E = -500mA; V _{CE} = 10V	10	40		MHz

NOTICE:

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