



ISC Silicon NPN Power Transistor

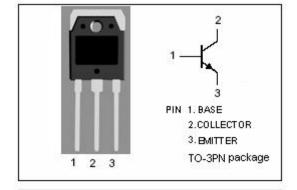
DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 800V(Min)
- · Fast Switching speed
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

Color TV horizontal output applications



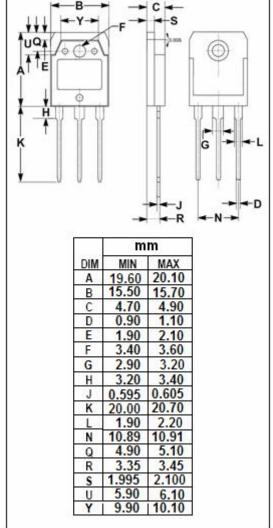


ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1200	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	6	Α
I _{CM}	Collector Current-Peak	12	А
I _B	Base Current-Continuous	3	А
Івм	Base Current-Peak	6	Α
Pc	Collector Power Dissipation @ Tc=25°C	100	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.25	°C/W



isc Website: www.iscsemi.cn

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2SC4236

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 0.2A; I _B = 0	800			V		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 3A; I _B = 0.6A			1.0	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V		
I _{CBO}	Collector Cutoff Current	At rated Voltage			100	μА		
ICEO	Collector Cutoff Current	At rated Voltage			100	μА		
I _{EBO}	Emitter Cutoff Current	At rated Voltage			100	μА		
h _{FE-1}	DC Current Gain	Ic= 3A; VcE= 5V	8					
h _{FE-2}	DC Current Gain	I _C = 1mA; V _{CE} = 5V	7					
f⊤	Current-Gain—Bandwidth Product	I _C = 0.6A; V _{CE} = 10V		8		MHz		
Switching times								
t _{on}	Turn-on Time				0.5	μS		
t _{stg}	Storage Time	I _C = 3A , I _{B1} = 0.6A; I _{B2} = -1.2A R _L = 85 Ω ; V _{BB2} = 4V			3.5	μS		
t _f	Fall Time				0.3	μs		

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