

ISC Silicon NPN Power Transistor

2SC4235

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



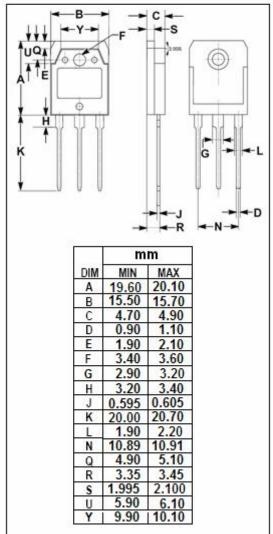
PIN 1. BASE 2.COLLECTOR 3. BMITTER TO-3PN package 2 3

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	3	Α	
I _{CM}	Collector Current-Peak	6	Α	
lв	Base Current-Continuous	1	А	
Івм	Base Current-Peak	2	А	
P _T	Total Power Dissipation @ T _C =25℃	80	W	
T _J	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	1.56	°C/W



¹ isc & iscsemi is registered trademark isc Website: www.iscsemi.cn



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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 0.1A; I _B = 0	800			V		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.3A			1.0	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1.5A; I _B = 0.3A			1.5	V		
I _{CBO}	Collector Cutoff Current	At rated Voltage			100	μА		
I _{CEO}	Collector Cutoff Current	At rated Voltage			100	μА		
I _{EBO}	Emitter Cutoff Current	At rated Voltage			100	μА		
h _{FE-1}	DC Current Gain	I _C = 1.5A; V _{CE} = 5V	8					
h _{FE-2}	DC Current Gain	I _C = 1mA; V _{CE} = 5V	7					
f _T	Current-Gain—Bandwidth Product	I _C = 0.3A ; V _{CE} = 10V		8		MHz		
Switching times								
ton	Turn-on Time				0.5	μs		
t _{stg}	Storage Time	I_{C} = 1.5A , I_{B1} = 0.3A; I_{B2} = -0.6A R_{L} = 170 Ω ; V_{BB2} = 4V			3.5	μS		
t _f	Fall Time				0.3	μS		

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