

ISC Silicon NPN Power Transistor

2SC4531

DESCRIPTION

- · High Breakdown Voltage
- · High Switching Speed
- Low saturation voltage
- · Built in damper diode
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

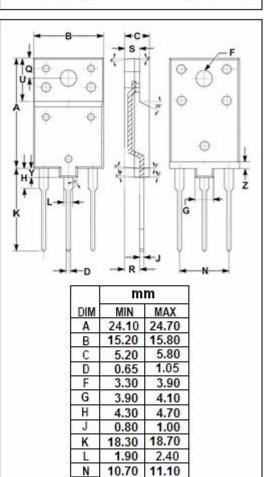
PIN 1. BASE 2.COLLECTOR 3. BMITTER TO-3P(H)IS package

APPLICATIONS

· Horizontal deflection output application

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	600	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current- Continuous	10	Α
Ісм	Collector Current- Peak	20	Α
l _Β	Base Current	5	Α
Pc	Collector Power Dissipation @ T _C =25℃	50	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	℃



4.40

3.30

9.50

1.90

1.40

9.70

2.10

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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 7A; I _B = 1.7A			5.0	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 7A; I _B = 1.7A			1.5	V			
V _(BR) CEO	Collector-Emitter Breakdown Voltage	Ic= 10mA; I I _B = 0	600			V			
Ісво	Collector Cutoff Current	V _{CB} = 1500V ; I _E = 0			0.1	mA			
I _{ЕВО}	Emitter Cutoff Current	V _{EB} = 5V ; I _C = 0			200	mA			
h _{FE}	DC Current Gain	Ic= 1A; Vc== 5V	8						
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V	1	3		MHz			
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f _{test} = 1.0MHz		210		pF			
Switching T	ïmes			,	,	1			
tstg	Storage Time	I _{CP} = 7A , I _{B1} = 1.4A; I _{B2} = -2.8A;		1.8	2.5	μ S			
t _f	Fall Time	R _L = 28.5 Ω		0.1	0.2	μ S			



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