

ISC Silicon NPN Power Transistor

2SC5124

DESCRIPTION

- Silicon NPN diffused planar transistor
- · Good Linearity of hFE
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

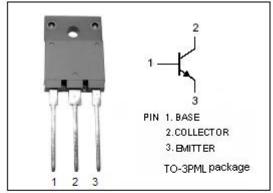


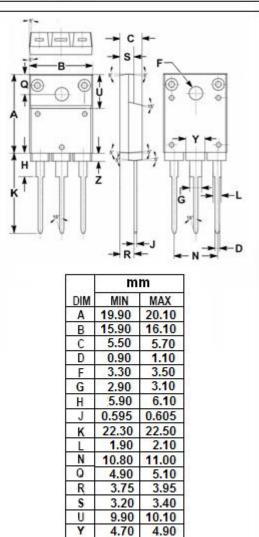
APPLICATIONS

 Designed for display horizontal deflection output Switching regulator and general purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	1500	V
Vceo	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous	10	А
I _B	Base Current-Continuous	4	А
P _C	Collector Power Dissipation @ T _C =25°C	100	W
Тл	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C





1.90



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	800			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =8A; I _B = 2A			5	V	
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =8A; I _B = 2A			1.5	V	
I _{CBO}	Collector Cutoff Current	V _{CB} = 1200V; I _E = 0			100	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			100	μА	
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	8				
h _{FE-2}	DC Current Gain	I _C = 8A; V _{CE} = 5V	4		9		
Сов	Collector Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		130		pF	
f _T	Current-Gain—Bandwidth Product	I _E = -1A; V _{CE} = 12V		3		MHz	

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