

isc Silicon NPN Power Transistor

2SC5902

DESCRIPTION

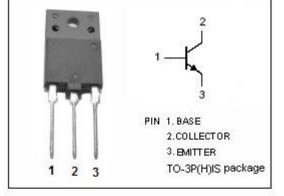
- · High Breakdown Voltage
- Built-in damper diode type
- High Switching Speed
- Wide Area of Safe Operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

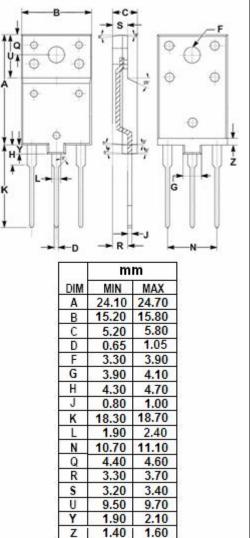
APPLICATIONS

• Designed for high voltage color display horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)				
SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1700	V	
V _{CES}	Collector-Emitter Voltage	1700	v	Ĵ.,
V_{EBO}	Emitter-Base Voltage	7	v	
lc	Collector Current- Continuous	9	A	
I _{CM}	Collector Current- Peak	14	A	
Pc	Collector Power Dissipation @ T_C =25 °C	40	w	1
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4.5A; I _B = 1.13A			3.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4.5A; I _B = 1.15Α			1.5	V
Ісво	Collector Cutoff Current	V _{CE} = 1000V; V _{BE} = 0			50	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			500	mA
h _{FE}	DC Current Gain	I _C = 4.5A; V _{CE} = 5V	5		10	

Switching Times

t _{stg}	Storage Time	5.0	μ s
tf	Fall Time I _C = 4.5A, I _{B1} = 1.13A; I _{B2} = -2.25A;	0.5	μ s

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