

isc Silicon NPN Power Transistor

DESCRIPTION

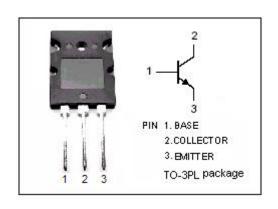
- · High Switching Speed
- · High Breakdown Voltage-
 - : V_{(BR)CBO}= 1100V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

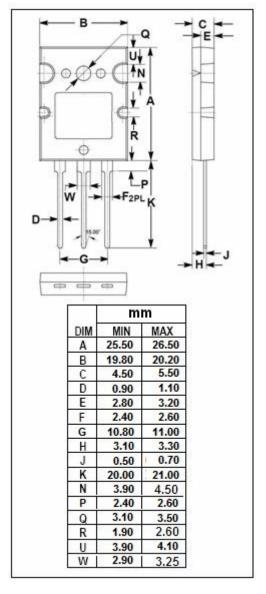
APPLICATIONS

• Designed for horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1100	V
V _{CEO}	Collector-Emitter Voltage	800	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	12	А
Ісм	Collector Current-Pulse	30	Α
Pc	Collector Power Dissipation @ T _C =25℃	200	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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2SC3992

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEX(SUS)}	Collector-Emitter Sustaining Voltage	I _C =10mA; I _B =0	800			٧
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; R _{BE} = ∞	1100			
V _(BR) CEO	Collector-Emitter Breakdown Voltage	I _C = 5mA; I _B = 0	800			
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 6A; I _B =1.2A			2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 6A; I _B =1.2A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			10	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			10	μ A
h _{FE-1}	DC Current Gain	I _C = 0.8A; V _{CE} = 5V	10		60	
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 5V	8			
T _{on}	On Time				0.5	μS
t _{stg}	Storage Time	V_{CC} =400V,5I _{B1} =-2.5I _{B2} =I _C =8A, R _L =50 Ω			3.0	μS
t _f	Fall Time				0.3	μS

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