

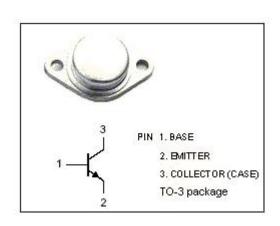
isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= 500V (Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

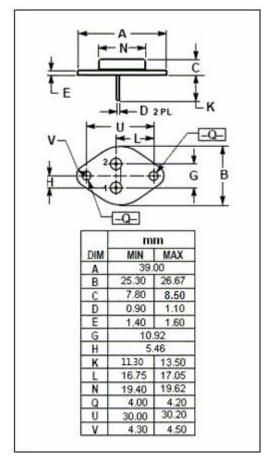
APPLICATIONS

• Designed for high speed power switching applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MAX	UNIT
V _{СВО}	Collector-Base Voltage	800	V
V _{CEO}	Collector-Emitter Voltage	500	V
V_{EBO}	Emitter-Base Voltage	8	V
Ic	Collector Current-Continuous	5	Α
Ісм	Collector Current-Peak	10	Α
Pc	Collector Power Dissipation @T _C =25 °C	90	W
Tj	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$





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2SC2658

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA ;I _B = 0	500			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V;I _E = 0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	mA
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	15			
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 5V	8			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V		3		MHz



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