

isc Silicon NPN Power Transistor

2N3055B

DESCRIPTION

- Excellent Safe Operating Area
- DC Current Gain-h_{FE}=70-140 @I_C = 4A
- · Collector-Emitter Saturation Voltage-
- : V_{CE(sat})= 1.1 V(Max)@ I_C = 4A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

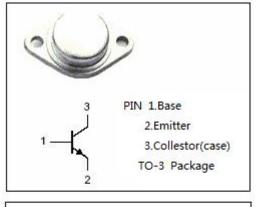
Designed for general-purpose switching and amplifier applications

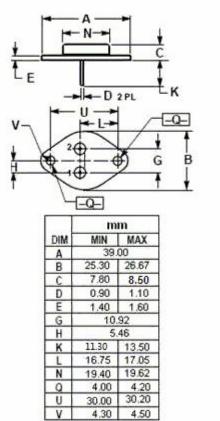
ABSOLUTE MAAIMOM KATINGS(1a-23 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	100	V				
VCEO	Collector-Emitter Voltage	60	V				
V _{EBO}	Emitter-Base Voltage	7	V				
Ic	Collector Current-Continuous	15	A				
I _B	Base Current	7	A				
Pc	Collector Power Dissipation@Tc=25°C 1		w				
T _{J,} T _{stg}	Operating and Storage Junction Temperature Range	-65~150	°C				

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.52	°C/W





isc website: www.iscsemi.com



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	Ic=30mA ; I _B =0	60		V
V _{CE} (sat)-1	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.4A		1.1	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 3.3A		3.0	V
$V_{\text{BE}(on)}$	Base-Emitter On Voltage	Ic= 4A ; Vc= 4V		1.5	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 30V; I _B =0		0.7	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7.0V; I _C =0		5.0	mA
h _{FE-1}	DC Current Gain	I _C = 4A ; V _{CE} = 4V	70	140	
h _{FE-2}	DC Current Gain	I _C = 10A ; V _{CE} = 4V	10		
I _{s/b}	Second Breakdown Collector Current with Base Forward Biased	V _{CE} = 40V,t= 1.0s,Nonrepetitive	2.87		А

NOTICE:

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