

isc Silicon NPN Power Transistor

2N3055

DESCRIPTION

- Excellent Safe Operating Area
- DC Current Gain-h_{FE}=20-150@I_C = 4A
- Collector-Emitter Saturation Voltage-: V_{CE(sat})= 1.1 V(Max)@ I_C = 4A
- Complement to Type MJ2955
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

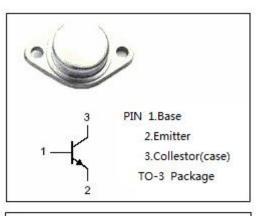
• Designed for general-purpose switching and amplifier applications

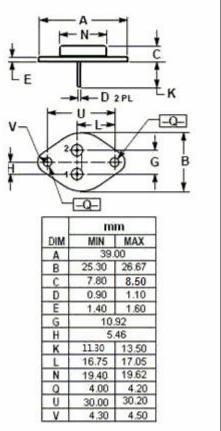
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL V _{CBO} Co	PARAMETER ollector-Base Voltage	VALUE	UNIT
V _{CBO} Co	ollector-Base Voltage	100	
			V
V _{CER} Co	ollector-Emitter Voltage	70	V
V _{CEO} Co	ollector-Emitter Voltage	60	V
V _{EBO} Er	mitter-Base Voltage	7	V
lc Co	ollector Current-Continuous	15	А
Ів Ва	ase Current	7	А
P _c Co	ollector Power Dissipation@Tc=25°C	115	W
	perating and Storage Junction emperature Range	-65~+150	°C

THERMAL CHARACTERISTICS

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







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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C =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 _{BE(on)}	Base-Emitter On Voltage	I _C = 4A ; V _{CE} = 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	20	150	
h _{FE-2}	DC Current Gain	Ic= 10A ; Vce= 4V	5.0		

NOTICE:

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