

COMPLEMENTARY SILICON POWER TRANSISTORS

DESCRIPTION :

- Fast Switching Speed
- DC Current Gain-
hFE= 1000(min) @IC= 10A
- Collector-Emitter Breakdown Voltage-
 $V_{(BR)CEO} = 100V(\text{min})$

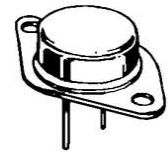
APPLICATIONS :

- Switching
- Amplifier

NPN

MJ4035

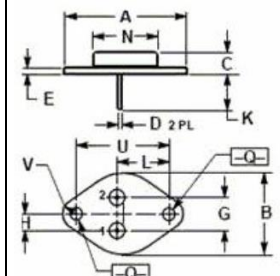
**16 AMPERES
COMPLEMENTARY
SILICON
POWER DARLINGTON
TRANSISTOR
100 VOLTS
150 WATTS**



TO-3

MAXIMUM RATINGS

Characteristic	Symbol	2N4035	Unit
Collector-Emitter Voltage	V_{CEO}	100	V
Collector-Base Voltage	V_{CBO}	100	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current-Continuous	I_C	16	A
Collector Power Dissipation @TC=25°C	P_C	150	Watts
Junction Temperature	T_J	-65 to +200	°C
Storage Temperature	T_{STG}	-65 to +200	°C



PIN 1.BASE.
2.EMITTER
COLLECTOR(CASE)

DIM	MILLIMETERS	
	MIN	MAX
A	39.00	
B	25.3	26.67
C	7.80	8.50
D	0.90	1.10
E	1.40	1.60
G	10.92	
H	5.46	
K	11.30	13.50
L	16.75	17.05
N	19.40	19.62
O	4.00	4.20
U	30.00	30.20
V	4.30	4.50

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Case	$R_{th j-c}$	1.17	°C/W

ELECTRICAL CHARACTERISTICS ($T_C=25^{\circ}\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min.	Max	Unit
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OFF CHARACTERISTICS

Collector-Emitter Sustaining Voltage ($I_C = 10\text{ mA}, I_B = 0$)	$V_{(BR)CEO}$	100		V
Collector Cutoff Current ($V_{CB} = 100\text{ V}, I_E = 0$)	I_{CBO}		1.0	mA
Collector Cutoff Current ($V_{CE} = 100\text{ V}, I_B = 0$)	I_{CEO}		1.0	mA
Emitter Cutoff Current ($V_{EB} = 5.0\text{ V}, I_C = 0$)	I_{EBO}		5.0	mA

ON CHARACTERISTICS(1)

DC Current Gain ($I_C = 10\text{ A}, V_{CE} = 3\text{ V}$)	h_{FE}	1000		
Collector-Emitter Saturation Voltage ($I_C = 10\text{ A}, I_B = 40\text{ mA}$) ($I_C = 16\text{ A}, I_B = 80\text{ mA}$)	$V_{CE(SAT)}$		2.5 4.0	V
Base-Emitter On Voltage ($I_C = 10\text{ A}, V_{CE} = 3\text{ V}$)	$V_{BE(ON)}$		3.0	V

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