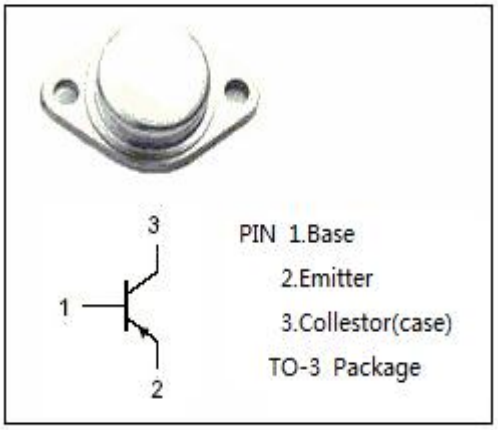
isc Silicon PNP Darlington Power Transistor MJ15019

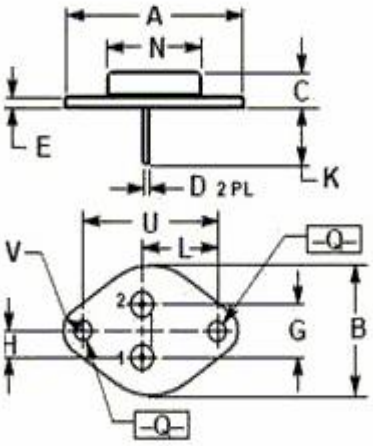
DESCRIPTION

- With TO-3 packaging
- Very high DC current gain
- Monolithic darlington transistor with integrated antiparallel collector-emitter diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Electronic ignition
- Alternator regulator
- Motor controls



DIM	mm MIN	MAX
A	39.00	
B	25.30	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
Q	4.00	4.20
U	30.00	30.20
V	4.30	4.50

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-200	V
V_{CEO}	Collector-Emitter Voltage	-200	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-4	A
I_B	Base Current- Continuous	-2	A
P_D	Collector Power Dissipation	150	W
T_j	Max.Junction Temperature	200	℃
T_{stg}	Storage Temperature Range	-65~200	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	1.17	℃/W

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= -100mA, I_B= 0	-200		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -1.0A ,I_B= 0.1A		-1.0	V
$V_{BE(on)}$	Base-Emitter Saturation Voltage	I_C= -1.0A ,V_{CE}= 4.0V		-2	V
I_{CEO}	Collector Cutoff Current	V_{CE}= -150V, I_B= 0		-0.5	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}=- 7V; I_C= 0		-0.5	mA
h_{FE-1}	DC Current Gain	I_C=-1A ; V_{CE}=-4V	30		
h_{FE-2}	DC Current Gain	I_C=-3A ; V_{CE}=-4V	10		