

isc Silicon NPN Power Transistor

MJ15026

DESCRIPTION

- Excellent Safe Operating Area
- DC Current Gain-
 - : h_{FE}= 25(Min.)@I_C = 5A
- Collector-Emitter Saturation Voltage-
 - : V_{CE(sat})= 1.0V(Max)@ I_C= 5A
- Complement to the PNP MJ15027
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

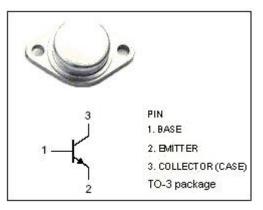
• Designed for high power audio, disk head positioners , and other linear applications.

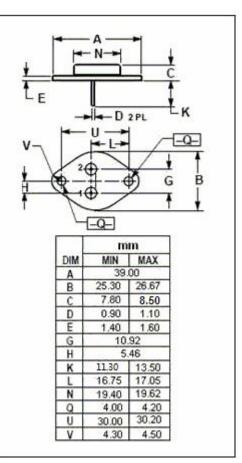
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CEO}	Collector-Emitter Voltage	200	V	
V _{CBO}	Collector-Base Voltage	200	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current-Continuous	16	А	
I _{CM}	Collector Current-Peak	32	А	
IB	Base Current-Continuous	7	А	
P _D	Total Power Dissipation@Tc=25°C	250	W	
Tj	Junction Temperature	200	°C	
T _{stg}	Storage Temperature	-65~200	°C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.7	°C/W





isc website: www.iscsemi.com



isc Silicon NPN Power Transistor

MJ15026

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA ;I _B = 0	200		v
V _{CE(sat)} -1	Collector-Emitter Saturation Voltage	I _C = 5Α; I _B = 0.5Α		1.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 16A; I _B = 4A		3.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 5Α; I _B = 0.5Α		2.0	V
Iceo	Collector Cutoff Current	V _{CE} = 120V; I _B = 0		1.0	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = 200V;I _E =0		1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		1.0	mA
hfe-1	DC Current Gain	Ic= 5A ; Vce= 5V	25	150	
h _{FE-2}	DC Current Gain	I _C = 16A ; V _{CE} = 5V	6		
f _T	Current-Gain—Bandwidth Product	I _C = 1A ; V _{CE} = 10V; f _{test} = 1.0MHz	15		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f _{test} = 1.0MHz	300		pF

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.