

COMPLEMENTARY SILICON POWER TRANSISTORS

...designed for use in general-purpose amplifier and switching application.

FEATURES

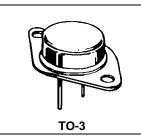
- * Power Dissipation P_C = 200W @Tc = 25°C
- * DC Current Gain hFE = 25~100 @Ic = 7.5A
- * $V_{CE(SAT)} = 0.8V \text{ (max)} @ Ic = 7.5A, I_B = 750mA$

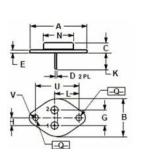
NPN MJ802

30 AMPERES
COMPLEMENTARY
SILICON POWER
TRANSISTORS
100 VOLTS
200 WATTS

MAXIMUM RATINGS

Rating	Symbol	MJ802	Unit
Collector-Emitter Voltage	V _{CEO}	90	٧
Collector-Base Voltage	V _{СВО}	100	V
Emitter-Base Voltage	V _{EBO}	4.0	V
Collector Current-Continuous	Ic	30	А
Base Current-Continuous	I _B	7.5	А
Collector Power Dissipation @ T _C =25°C	Pc	200	W
Junction Temperature	Тл	150	$^{\circ}$
Storage Temperature Range	T _{STG}	-65 to +200	$^{\circ}$





PIN	1.BASE
	2.EMITTER
	COLLECTOR(CASE)

DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	39.00		
В	25.30	26.67	
С	7.80	8.50	
D	0.90	1.10	
Е	1.40	1.60	
G	10.92		
Н	5.46		
K	11.30	13.50	
L	16.75	17.05	
Ν	19.40	19.62	
0	4.00	4.20	
U	30.00	30.20	
V	4.30	4.50	

THERMAL CHARACTERISTICS

RA-D-1266 Ver.A

THERMAL CHARACTERISTICS				
Characteristic	Symbol	Max	Unit	
Thermal Resistance Junction to Case	R _{th i-c}	0.875	°C/W	



Characteristic	Symbol	Min.	Max	Unit
OFFCHARACTERISTICS				
Collector-Emitter Sustaining Voltage (I _C = 50 mA, I _B = 0)	V _{CEO(SUS)}	90		V
Collector Cutoff Current (VcB = 100 V, IE=0)	І _{сво}		1.0	mA
Emitter Cutoff Current (V _{EB} = 4.0 V, I _C = 0)	I _{EBO}		1.0	mA
ON CHARACTERISTICS(1)				
DC Current Gain (I _C = 7.5 A, V _{CE} = 2.0 V)	h _{FE}	25	100	
Collector-Emitter Saturation Voltage (I _C = 7.5 A, I _B = 0.75 A)	V _{CE(SAT)}		0.8	V
Base-Emitter On Voltage (I _C =7.5 A, V _{CE} =2.0 V)	V _{BE(ON)}		1.3	V
Base-Emitter Saturation Voltage (I _C = 7.5 A, I _B = 0.75 A)	V _{BE} (SAT)		1.3	V
Current-Gain—Bandwidth Product I _C =1A;V _{CE} =10V;f=1.0MHz	f _T	2.0		MHz





Notice

MOSPEC reserves the rights to make changes of the content herein the document anytime without notification. MOSPEC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies. Please refer to MOSPEC website for the last document.

MOSPEC disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially incurred.

Application shown on the herein document are examples of standard use and operation. Customers are responsible for comprehending suitable use in particular applications. MOSPEC makes no representation or warranty that such application will be suitable for the specified use without further testing or modification.

The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by MOSPEC for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of MOSPEC or others.

These MOSPEC products are intended for usage in general electronic equipment. Please make sure to consult with MOSPEC before you use these MOSPEC products in equipment which require specialized quality and/or reliability, and in equipment which could have major impact to the welfare of human life (atomic energy control, aeronautics, traffic control, combustion control, safety devices etc.)

