

Micro Commercial Components

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MJF15030-BS01

Features

- General-purpose Amplifier and Switching Applications
- No Isolating Washers Required
- **Reduced System Cost**
- Special Marking: TLC Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings @ 25°C Unless Otherwise Noted

Symbol	Rating	Value	Unit
V _{CEO}	Collector-Emitter Voltage	150	V
V _{CBO}	Collector-Base Voltage	150	V
V _{EB}	Emitter-Base Voltage	5.0	V
I _c	Collector Current- Continuous - Peak	8.0 16	А
I _B	Base Current	2.0	А
P _D	Total Power Dissipation* $@T_c=25$ °C $@T_A=25$ °C	36 2.0	W
T _{J,} T _{STG}	Operating and Storage Temperature Range	-55~+150	°C

Thermal Characteristics

Symbol	Characteristic	Max	Unit
R _{QJC}	Thermal Resistance, Junction to Case*	3.5	°C /W

* Measurement made with thermocouple contacting the bottom insulated mounting surface (in a location beneath the die), the device mounted on a heatsink with thermal grease and a mounting torque of>6 in. Ibs.

Electrical Characteristics @ 25°C Unless Otherwise Noted

Symbol	Characteristic	Min	Max	Unit
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage $(I_C=10mA,I_B=0)$	150		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage $(I_C=1.0A, I_B=0.1A)$		0.5	V
V_{BE}	Emitter-Base on Voltage $(I_C=1.0A, V_{CE}=2.0V)$		1.0	V
I _{CEO}	Collector Cut-off Current $(V_{CE}=150V,I_{B}=0)$		10	μA
I _{CBO}	Collector Cut-off Current $(V_{CB}=150V,I_{E}=0)$		10	μA
I _{EBO}	Emitter Cut-off Current (V _{BE} =5.0V,I _C =0)		10	μA
	DC Current Gain (I _c =0.1A,V _{CE} =2.0V)	40		
h _{FE}	$(I_{C}=2.0A, V_{CE}=2.0V)$	40		
	$(I_{C}=3.0A, V_{CE}=2.0V)$ $(I_{C}=4.0A, V_{CE}=2.0V)$	20		
f⊤	Transition Frequency ($I_c=500$ mA, $V_{cE}=10V$)	30		MHz

Silicon Power Transistors 150 Volts



DIM	INC	INCHES		INCHES MM		MM	NOTE	
	MIN	MAX	MIN	MAX	NOTE			
Α	.388	.407	9.85	10.35				
В	.128	.145	3.25	3.55				
С	.101	.111	2.57	2.83				
D	.570	.610	14.9	15.5				
E	.496	.520	12.6	13.2				
F	.148	.167	3.75	4.25				
G	.096	.101	2.44	2.57				
Н	.019	.029	.47	.73				
J	.046	.056	1.17	1.43				
К	.266	.285	6.75	7.25				
М	.165	.190	4.25	4.75				
N	.110	.130	2.81	3.31				
Р	.097	.107	2.72	2.48				
Q	.019	.029	.47	.73				

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