

Micro Commercial Components



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Features

- General-purpose Amplifier and Switching Applications
- No Isolating Washers Required
- Reduced System Cost
- Special Marking: TLC
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

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
Ι _C	Collector Current- Continuous - Peak	8.0 16	А
Ι _Β	Base Current	2.0	А
P _D	Total Power Dissipation* @T _c =25 ^o C @T _a =25 ^o 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.

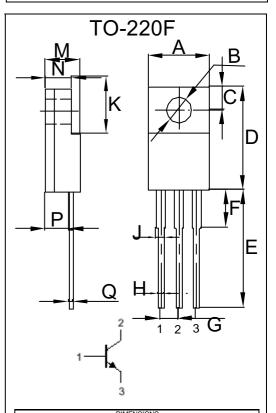
Electrical Characteristics @ 25°C Unless Otherwise Noted

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
h _{FE}	$\begin{array}{l} \text{DC Current Gain (} I_{C} = 0.1 \text{A}, V_{CE} = 2.0 \text{V}) \\ (\ I_{C} = 2.0 \text{A}, V_{CE} = 2.0 \text{V}) \\ (\ I_{C} = 3.0 \text{A}, V_{CE} = 2.0 \text{V}) \\ (\ I_{C} = 4.0 \text{A}, V_{CE} = 2.0 \text{V}) \end{array}$	40 40 40 20	 	
f _T	Transition Frequency (I_c =500mA, V_{CE} =10V)	30		MHz



MJF15030-BS01

Silicon Power Transistors 150 Volts



DIM -	INC	HES	1	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	
K	.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	
0	.019	.029	.47	.73	

www.mccsemi.com



Ordering Information :

Device	Packing
Part Number-BP	Bulk; 1Kpcs/Box

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