

Rev. H Oct.-2018

KF \$))' E GE Silicon NPN transistor in a TO-220 Plastic Package.

Large DC current($I_C=10A$),high f_T ($f_T \approx 2Mhz$).

General purpose and switching applications.

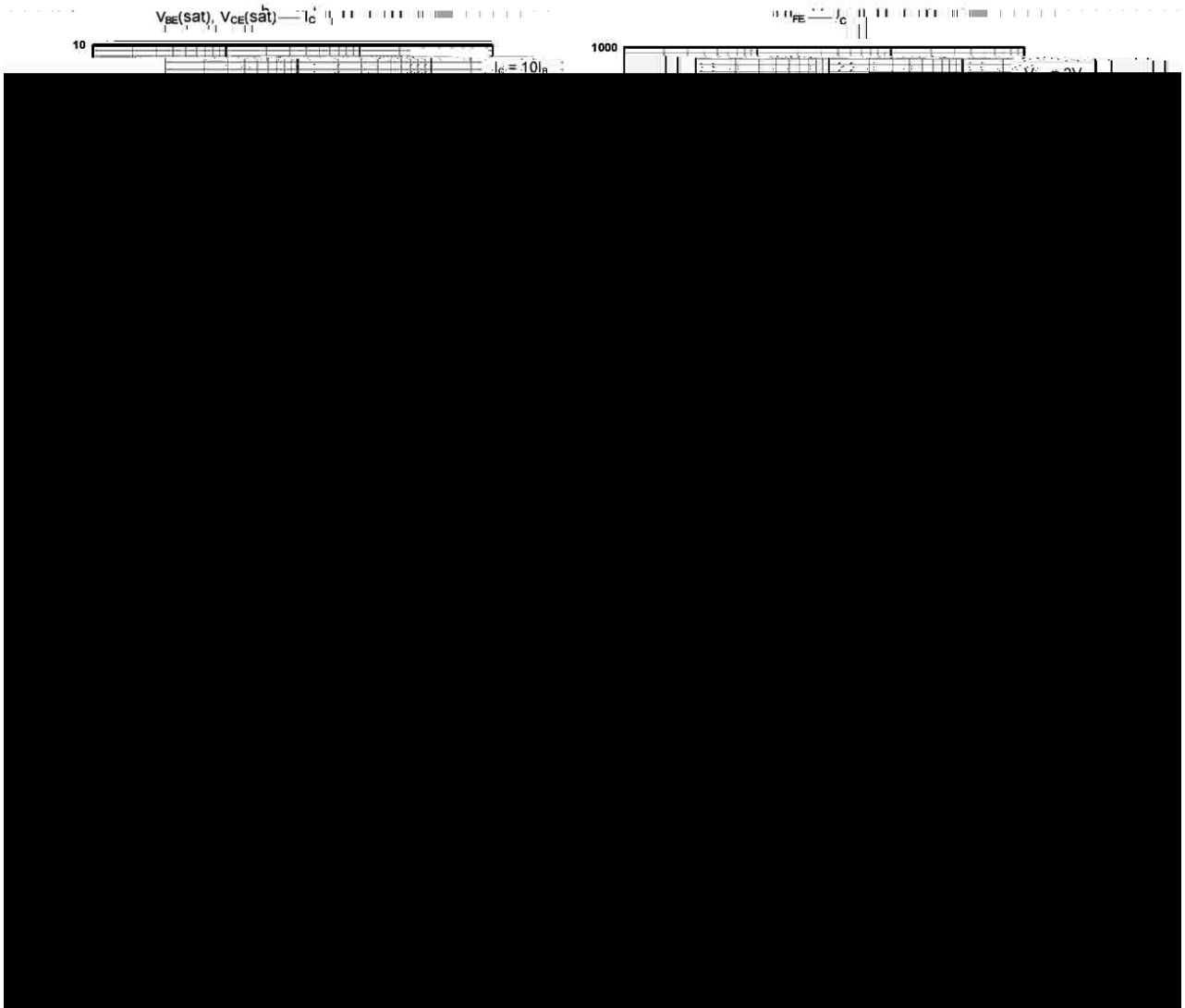


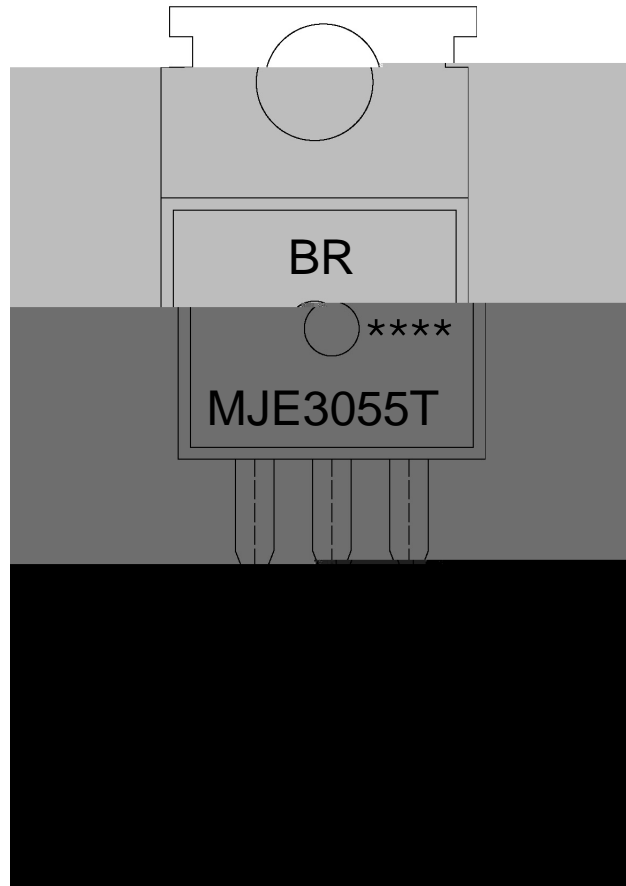
PIN1 Base PIN 2 Collector PIN 3 Emitter

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	70	V
Collector to Emitter Voltage	V_{CEO}	60	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	10	A
Base Current - Continuous	I_B	6.0	A
Collector Power Dissipation	P_C	2.0	W
Collector Power Dissipation	$P_C(T_c=25^\circ\text{C})$	75	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Ty10.1	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=200\text{mA}$ $I_B=0$	60			V
Collector Cut-Off Current	I_{CEO}	$V_{CE}=30\text{V}$ $I_B=0$			700	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0\text{V}$ $I_C=0$			5.0	mA
Collector Cut-Off Current	I_{CEX}	$V_{BE(off)}=-1.5\text{V}$ $V_{CE}=70\text{V}$			1.0	mA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=4.0\text{V}$ $I_C=4.0\text{A}$	20		100	
	$h_{FE(2)}$	$V_{CE}=4.0\text{V}$ $I_C=10\text{A}$	5.0			
Collector to Emitter Sat Voltage	$V_{CE(sat)(1)}$	$I_C=4.0\text{A}$ $I_B=0.4\text{A}$			1.1	V
	$V_{CE(sat)(2)}$	$I_C=10\text{A}$ $I_B=3.3\text{A}$			8.0	V
Base to Emitter On Voltage	$V_{BE(on)}$	$V_{CE}=4.0\text{V}$ $I_C=4.0\text{A}$			1.8	V
Transition Frequency	f_T	$V_{CE}=10\text{V}$ $I_C=500\text{mA}$	2.0			MHz





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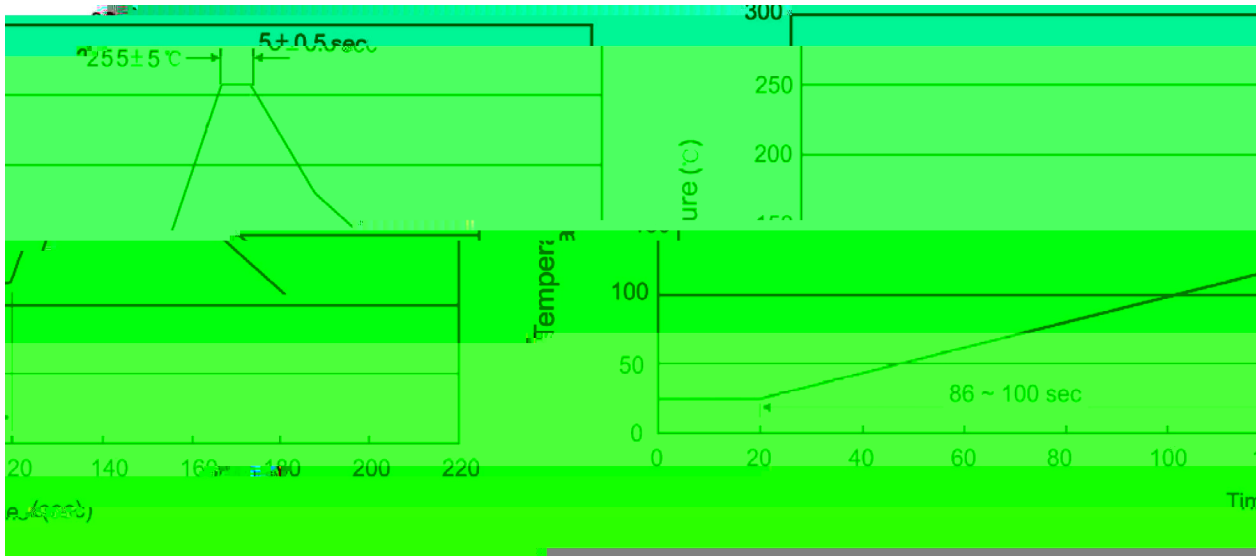
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Note:

BR: Company Code

MJE3055T: Product Type.

****: Lot No. Code, code change with Lot No.


Note:

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|---|------------|------------|---|
| 1 | 25 150 | 60 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255..5 | 5..0.5sec; | 2.Peak Temp.:255..5 , Duration:5..0.5sec. |
| 3 | 2 10 /sec. | | 3. Cooling Speed: 2~10 /sec. |

270..5 10...1 sec. Temp.:270±5 Time:10±1 sec

/ BULK

Package Type	Units					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180