

**/ Descriptions**

KF \$ , ) GE G Silicon PNP transistor in a TO-252 Plastic Package.

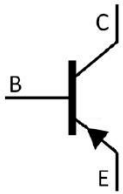
**/ Features**

$V_{CEO}$   
Low Collector–Emitter Saturation Voltage, High Current–Gain.

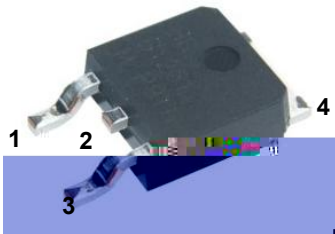
**/ Applications**

Low power audio amplifier, Low current, high speed switching applications.

**/ Equivalent Circuit**



**/ Pinning**



PIN1 Base      PIN 2,4 Collector      PIN 3 Emitter

**/  $h_{FE}$  Classifications & Marking**

See Marking Instructions.

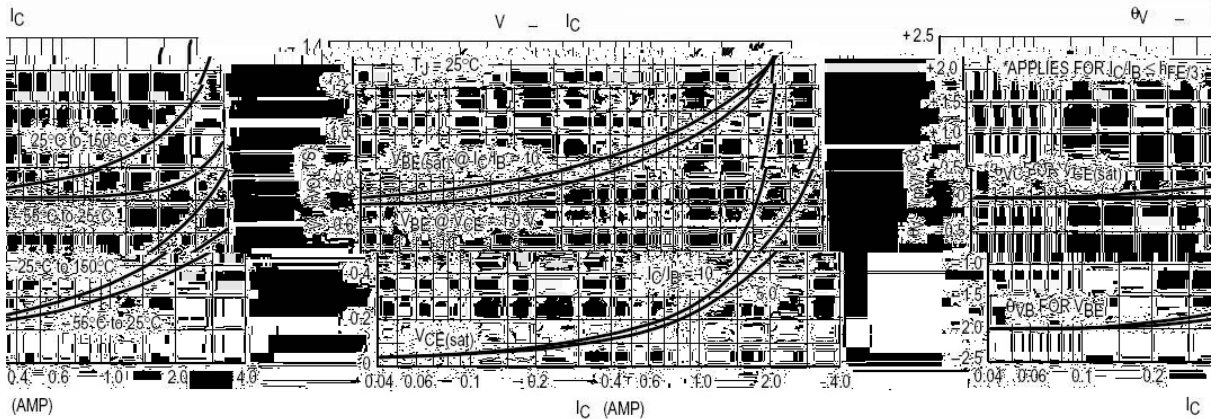
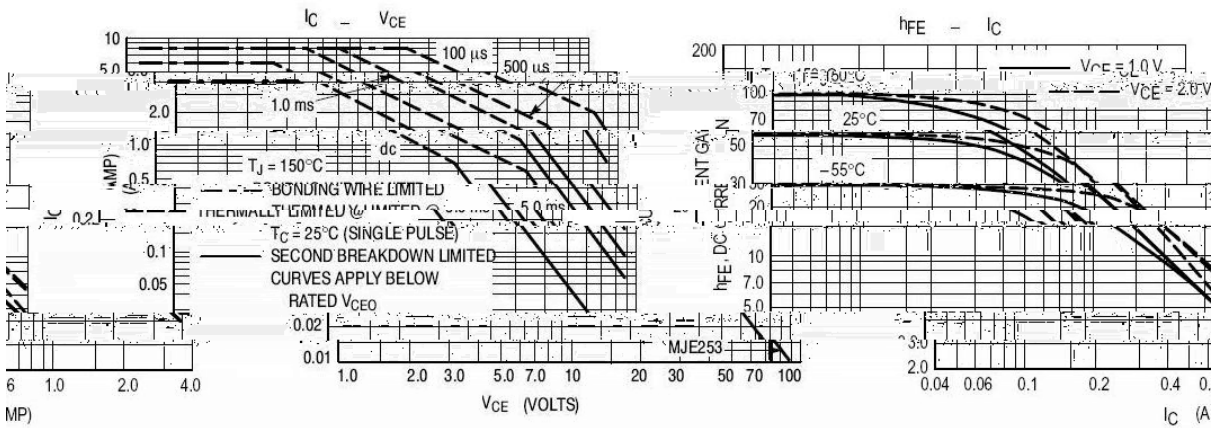
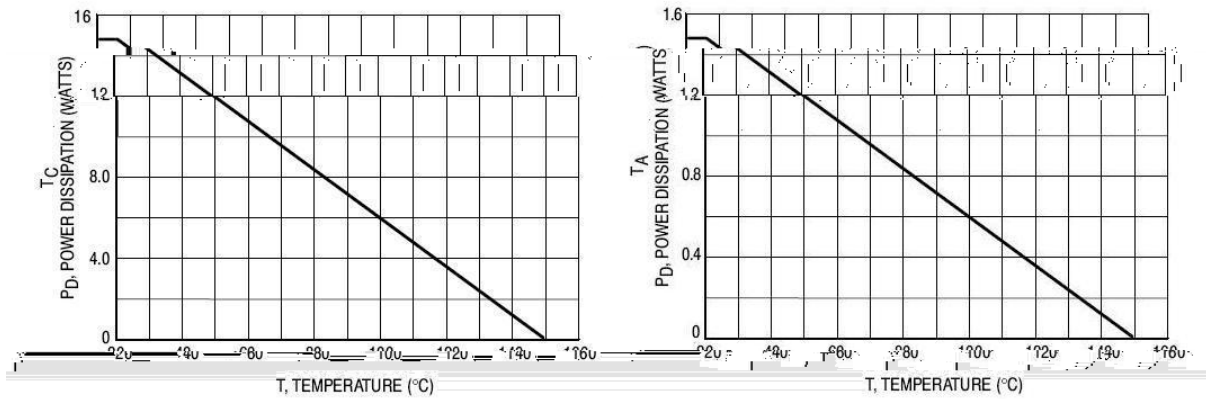
**/ Absolute Maximum Ratings(Ta=25 )**

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-100	V
Collector to Emitter Voltage	$V_{CEO}$	-100	V
Emitter to Base Voltage	$V_{EBO}$	-7.0	V
Collector Current - Continuous	$I_{C(1)}$	-4.0	A
Peak Collector Current - Continuous	$I_{C(2)}$	-8.0	A
Base Current - Continuous	$I_B$	-10	A
Collector Power Dissipation	$P_D$	1.4	W
Collector Power Dissipation	$P_D(T_c=25 )$	12.5	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

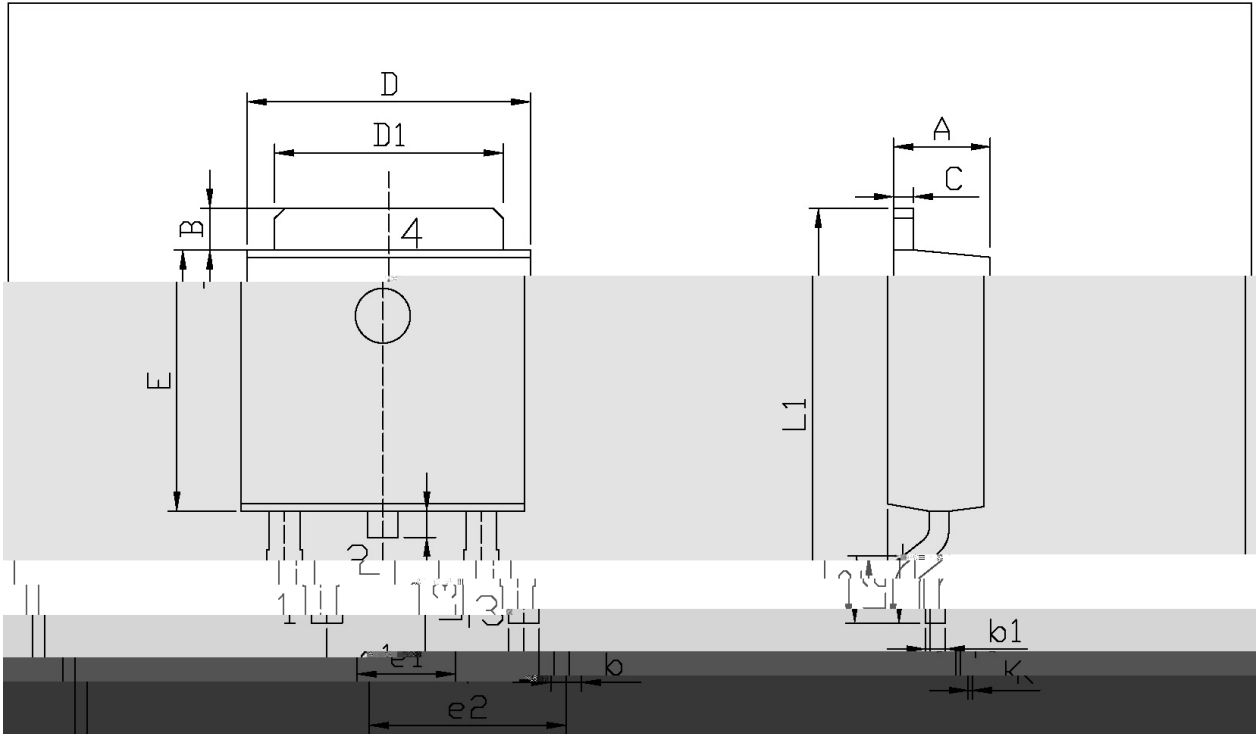
**/ Electrical Characteristics(Ta=25 )**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=-10mA$ $I_B=0$	-100			V
Collector Cut-Off Current	$I_{CBO(1)}$	$V_{CB}=-100V$ $I_E=0$			-0.1	$\mu A$
	$I_{CBO(2)}$	$V_{CE}=-100V$ $T_c=125$			-0.1	mA
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-7.0V$ $I_C=0$			-0.1	$\mu A$
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-1.0V$ $I_C=-200mA$	40		180	
	$h_{FE(2)}$	$V_{CE}=-1.0V$ $I_C=-1.0A$	15			
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=-500mA$ $I_B=-50mA$			-0.3	V
	$V_{CE(sat)(2)}$	$I_C=-1.0A$ $I_B=-100mA$			-0.6	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-2.0A$ $I_B=-200mA$			-1.8	V
Base to Emitter On Voltage	$V_{BE(on)}$	$V_{CE}=-1.0V$ $I_C=-500mA$			-1.5	V
Current- Gain Bandwidth Product	$f_T$	$V_{CE}=-10V$ $I_C=-100mA$	40			MHz
Output Capacitance	$C_{ob}$	$V_{CB}=-10V$ $f=0.1MHz$			50	pF

/ Electrical Characteristic Curve



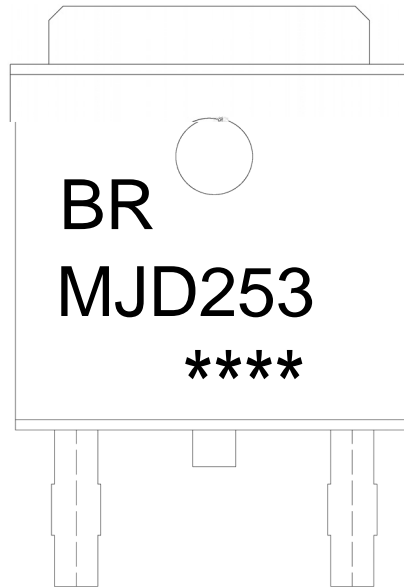
/ Package Dimensions



单位: mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	2.20	2.40	E	5.95	6.25
B	0.95	1.25	e1	2.24	2.34
b	0.50	0.70	e2	4.43	4.73
b1	0.45	0.55	L1	0.45	0.65

/ Marking Instructions



BR

DA), \*

!!!!

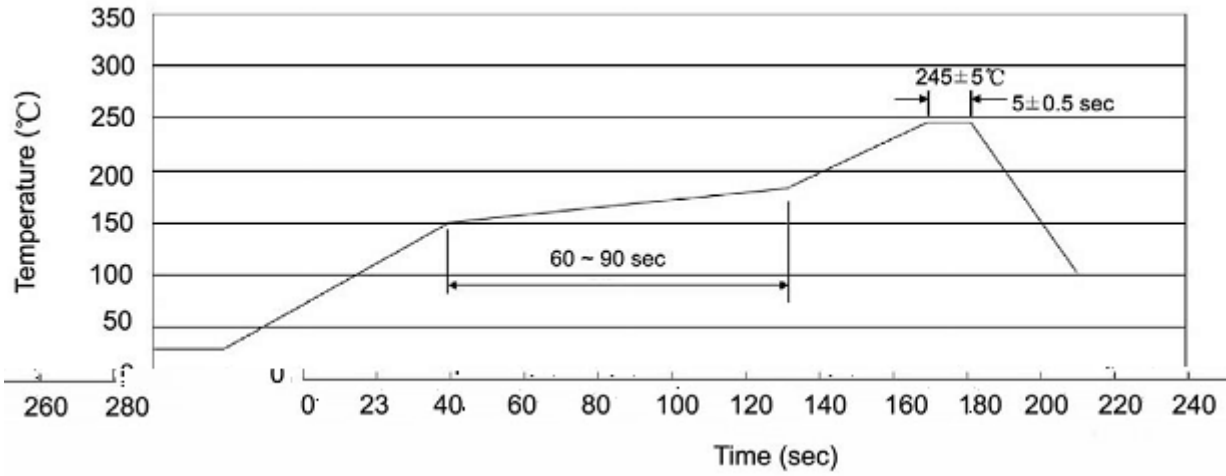
Note:

BR: Company Code

MJD253: Product Type.

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

( ) /



Note:

- |   |        |     |            |        |   |
|---|--------|-----|------------|--------|---|
| 1 | 25     | 150 | 60         | 90sec; | 1.Preheating:25~150 , Time:60~90sec.      |
| 2 | 245..5 |     | 5..0.5sec; |        | 2.Peak Temp.:245..5 , Duration:5..0.5sec. |
| 3 |        | 2   | 10         | /sec.  | 3. Cooling Speed: 2~10 /sec.              |

/ Resistance to Soldering Heat Test Conditions

260..5                      10..1 sec.                      Temp.:260±5                      Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	5	25,000	13 × 16	360×360×50	385×257×392