

**/ Descriptions**

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

**/ Features**

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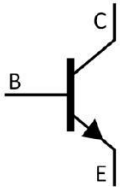
High voltage high speed switching.

**/ Applications**

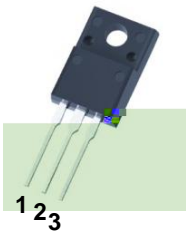
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Switching regulator applications, High voltage switching applications, High speed DC-DC converter applications.

**/ Equivalent Circuit**



**/ Pinning**



PIN1 Base      PIN 2 Collector      PIN 3 Emitter

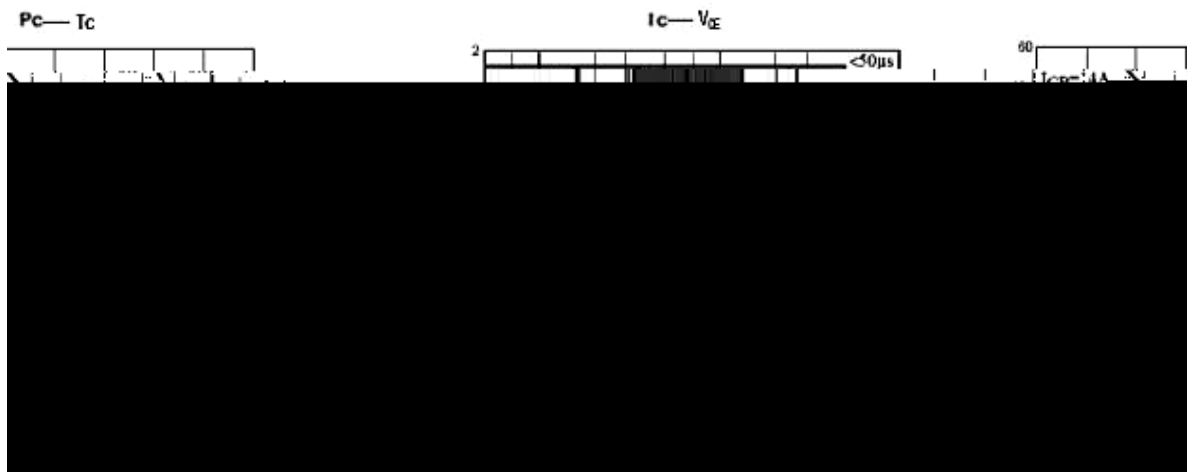
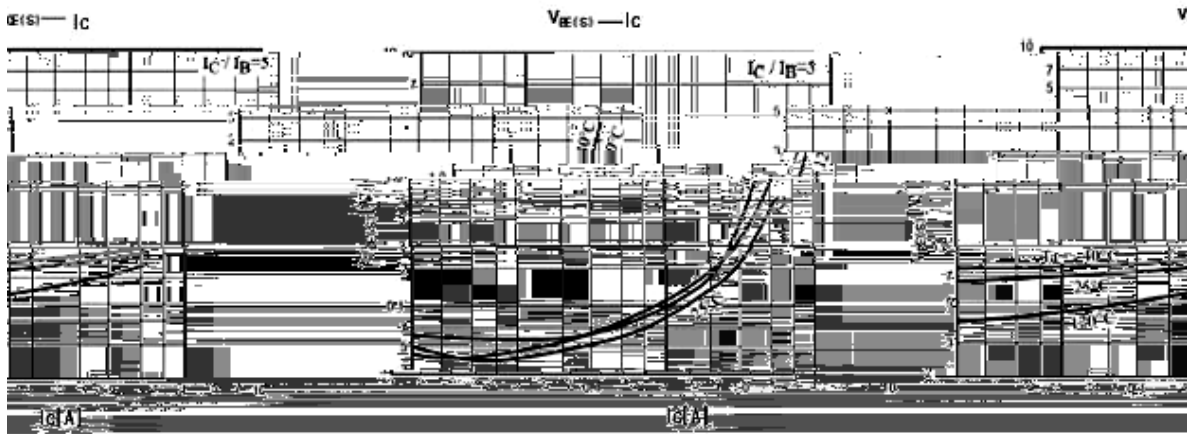
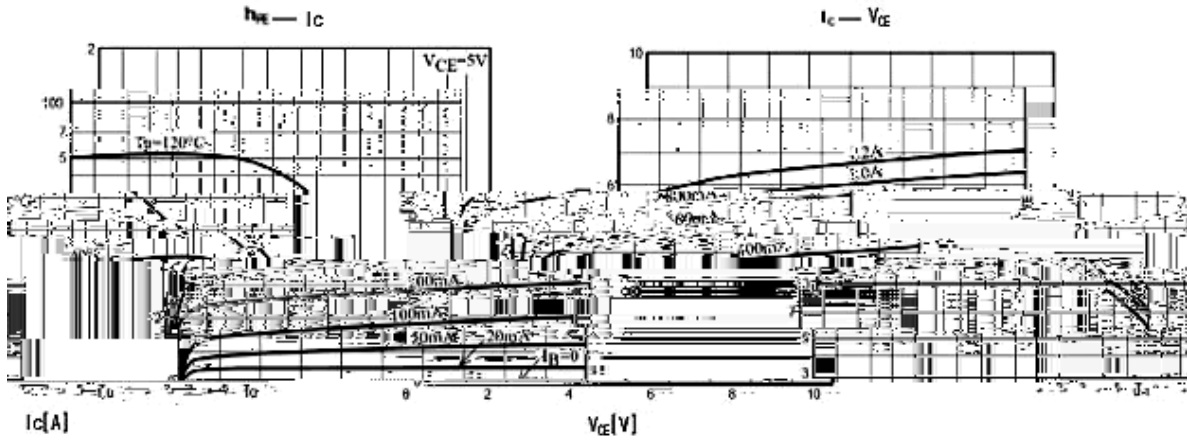
**/ h<sub>FE</sub> Classifications & Marking**

See Marking Instructions .

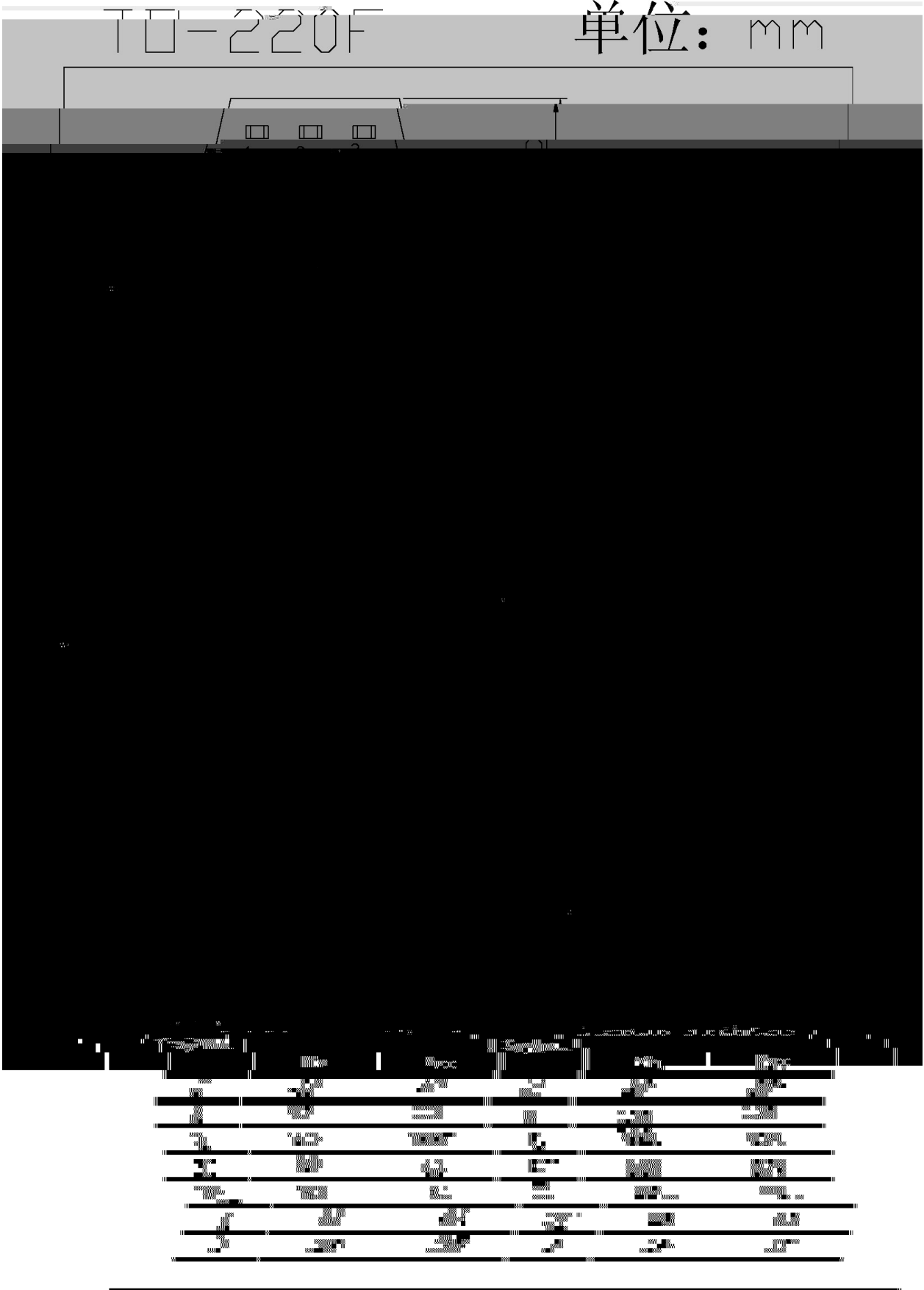
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	900	V
Collector to Emitter Voltage	$V_{CEO}$	500	V
Emitter to Base Voltage	$V_{EBO}$	7.0	V
Collector Current - Continuous	$I_C$	7.0	A
Peak Collector Current	$I_{cm}$	14	A
Collector Power Dissipation	$P_C(T_c=25^\circ C)$	45	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	$V_{CBO}$	$I_C=1mA$ $I_B=0$	900			V
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=10mA$ $I_B=0$	500			V
Collector Cut-Off Current	$I_{CEO}$	$V_{CE}=500V$ $I_E=0$			250	$\mu A$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=5V$ $I_C=0$			10	$\mu A$

/ Electrical Characteristic Curve



/ Package Dimensions





**2SD1710F**  
Rev.F Mar.-2016

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