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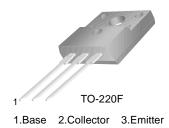
ON Semiconductor®

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- High Voltage Capability
- High Switching Speed
- Suitable for Electronic Ballast and Switching Mode Power Supply



Absolute Maximum Ratings $T_{c} = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	700	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	9	V
I _C	Collector Current (DC)	8	А
I _{CP}	Collector Current (Pulse)	16	A
I _B	Base Current	4	A
P _C	Collector Dissipation ($T_C = 25^{\circ}C$)	40	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-65 ~ 150	°C

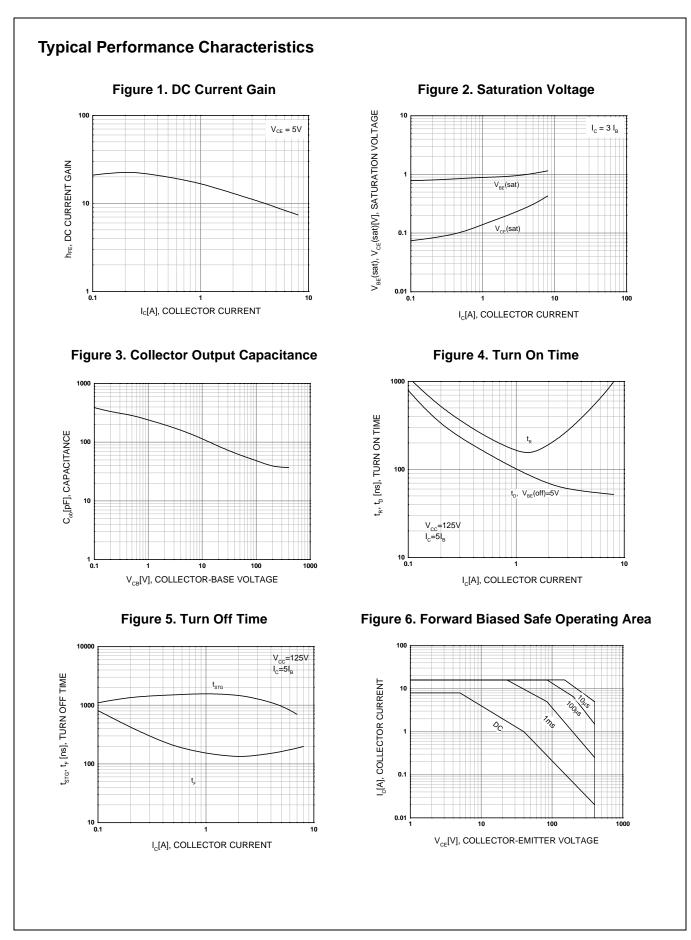
Symbol	Parameter	Conditions	Min.	Тур.	Max	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 0$	400			V
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 9V, I_{C} = 0$			1	μA
h _{FE1} h _{FE2}	DC Current Gain	$V_{CE} = 5V, I_C = 2A$ $V_{CE} = 5V, I_C = 5A$	8 5		60 30	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	$I_{C} = 2A, I_{B} = 0.4A$ $I_{C} = 5A, I_{B} = 1A$ $I_{C} = 8A, I_{B} = 2A$			1.0 2.0 3.0	V V V
V _{BE(sat)}	Base-Emitter Saturation Voltage	$I_{C} = 2A, I_{B} = 0.4A$ $I_{C} = 5A, I_{B} = 1A$			1.2 1.6	V V
f _T	Current Gain Bandwidth Product	$V_{CE} = 10V, I_{C} = 0.5A$	4			MHz
C _{ob}	Output Capacitance	V _{CB} = 10V, f = 0.1MHz		110		pF
t _{ON}	Turn On Time	$V_{CC} = 125V, I_C = 5A \\ I_{B1} = -I_{B2} = 1A \\ R_L = 25\Omega$			1.6	μs
t _{STG}	Storge Time				3.0	μs
t _F	Fall Time				0.7	μs

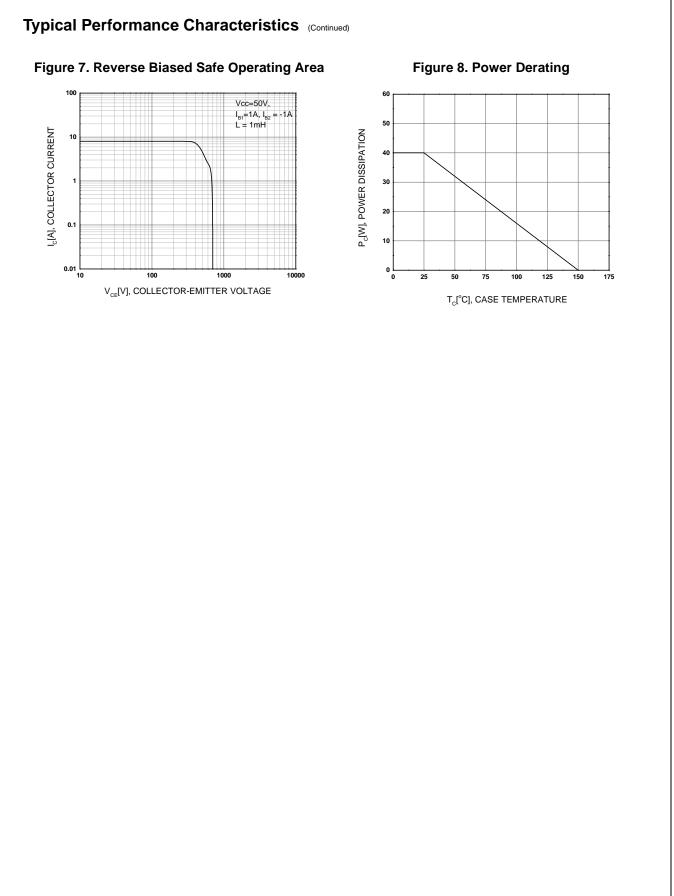
Electrical Characteristics T_C = 25°C unless otherwise note

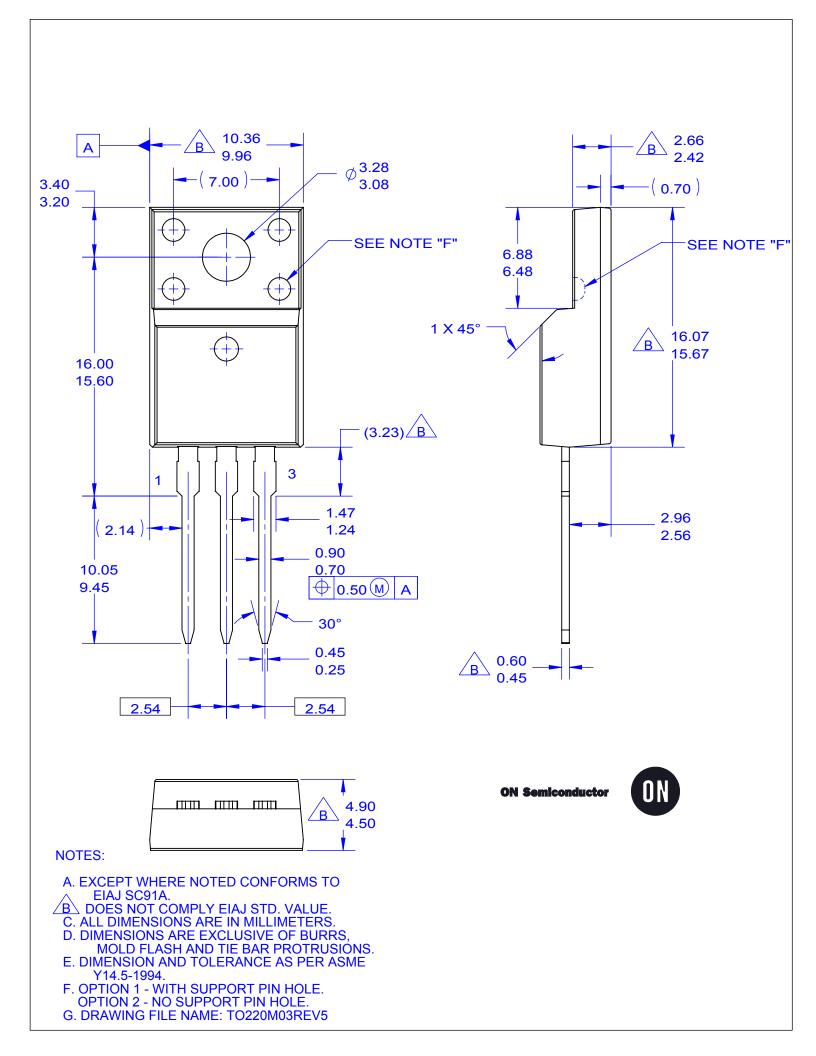
* Pulse Test: PW $\leq 300 \mu s,$ Duty Cycle $\leq 2\%$

h_{FE} Classification

Classification	H1	H2
h _{FE1}	15 ~ 28	26 ~ 39







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