

Is Now Part of

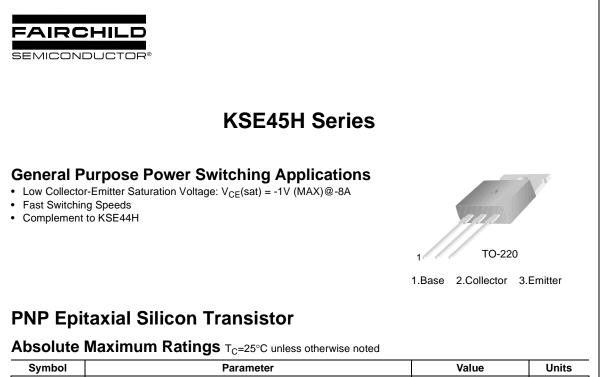


ON Semiconductor®

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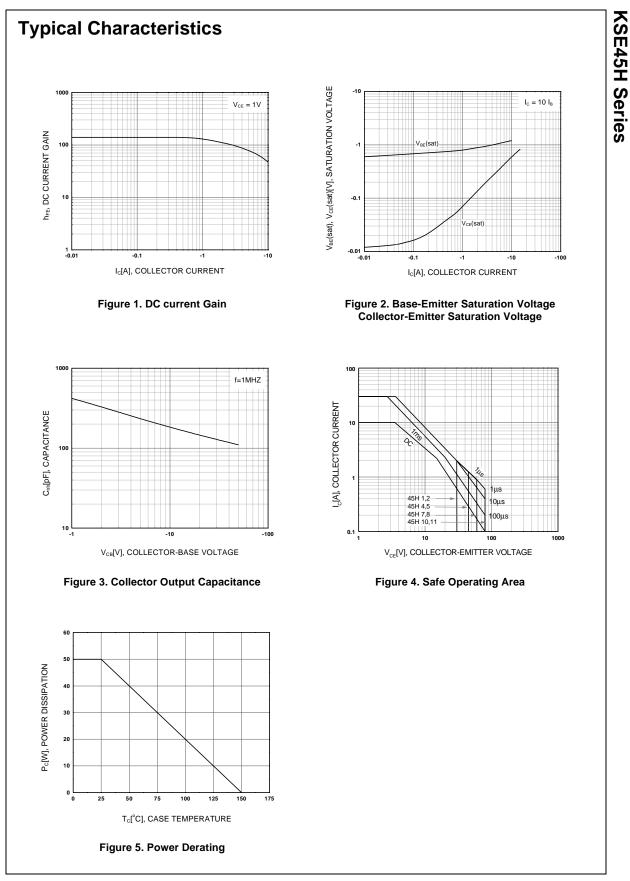


Symbol	Parameter	Value	Units
V _{CEO}	Collector-Emitter Voltage : KSE45H 1,2	- 30	V
	: KSE45H 4,5	- 45	V
	: KSE45H 7,8	- 60	V
	: KSE45H 10,11	- 80	V
V _{EBO}	Emitter- Base Voltage	- 5	V
I _C	Collector Current (DC)	- 10	A
I _{CP}	*Collector Current (Pulse)	- 20	A
P _C	Collector Dissipation (T _C =25°C)	50	W
P _C	Collector Dissipation (T _a =25°C)	1.67	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

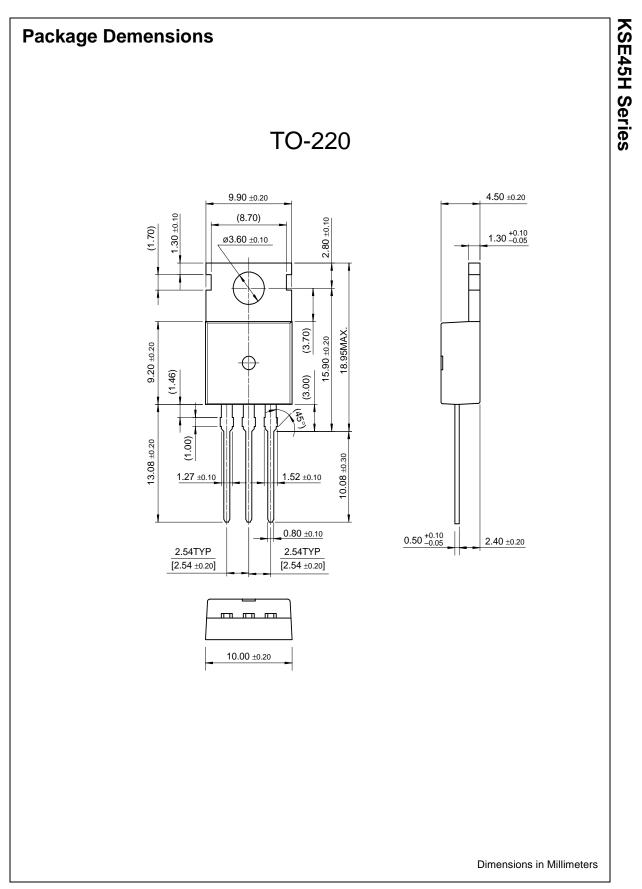
Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CES}	Collector Cut-off Current	V_{CE} = Rated, V_{CEO} , V_{EB} = 0			-10	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			-100	μΑ
h _{FE}	*DC Current Gain					
	: KSE45H 1, 4, 7 10	V _{CE} = - 1V, I _C = - 2A	35			
	: KSE45H 2, 5, 8,11		60			
V _{CE} (sat)	*Collector-Emitter Saturation Voltage					
	: KSE45H 1, 4, 7 10	I _C = - 8A, I _B = - 0.8A			-1	V
	: KSE45H 2, 5, 8,11	I _C = - 8A, I _B = - 0.4A			-1	V
V _{BE} (sat)	*Base-Emitter Saturation Voltage	I _C = - 8A, I _B = - 0.8A			-1.5	V
f _T	Current Gain Bandwidth Product	V _{CE} = - 10V, I _C = - 0.5A		40		MHz
C _{ob}	Output Capacitance	V _{CB} = - 10V, f = 1MHz		230		pF
t _{ON}	Turn ON Time	V _{CC} =20V, I _C = - 5A		135		ns
t _{STG}	Storage Time	I _{B1} = - I _{B2} = - 0.5A		500		ns
t _F	Fall Time	1		100		ns

KSE45H Series



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