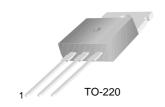


KSE45H Series

General Purpose Power Switching Applications

- Low Collector-Emitter Saturation Voltage: V_{CE}(sat) = -1V (MAX)@-8A
- Fast Switching SpeedsComplement to KSE44H



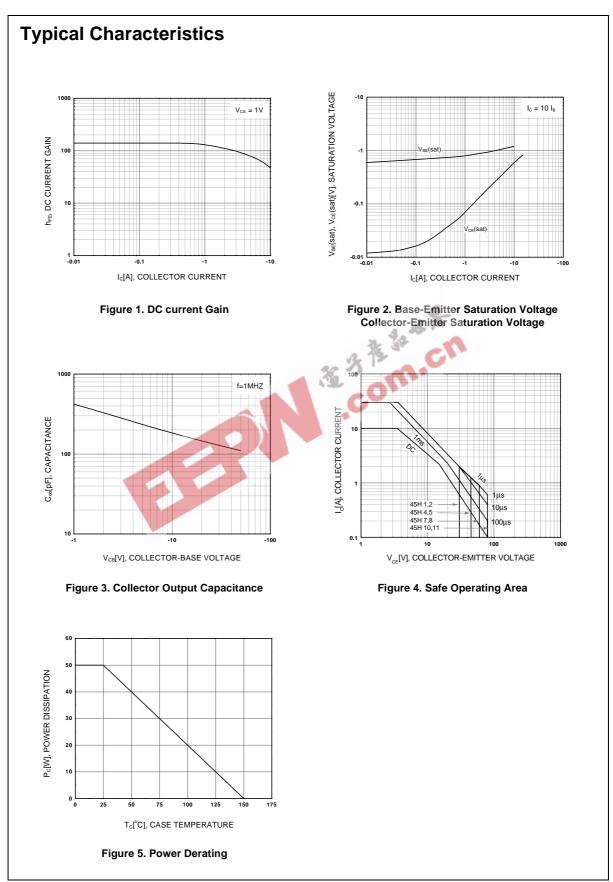
1.Base 2.Collector 3.Emitter

		1.Base 2.Collector 3	.Emitter			
PNP Epitaxial Silicon Transistor Absolute Maximum Ratings T _C =25°C unless otherwise noted						
Symbol	Parameter	Value	Units			
V _{CEO}	Collector-Emitter Voltage : KSE45H 1,2	- 30	V			
020	: 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	Α			
I _{CP}	*Collector Current (Pulse)	- 20	Α			
P _C	Collector Dissipation (T _C =25°C)	50	W			
P _C	Collector Dissipation (T _a =25°C)	1.67	W			
T _J	Junction Temperature	150	°C			
T _{STG}	Storage Temperature	- 55 ~ 150	°C			

$\textbf{Electrical Characteristics} \ \, \textbf{T}_{\text{C}} = 25 ^{\circ} \text{C unless otherwise noted}$

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 : KSE45H 2, 5, 8,11	V _{CE} = - 1V, I _C = - 2A	35 60			
V _{CE} (sat)	*Collector-Emitter Saturation Voltage : KSE45H 1, 4, 7 10 : KSE45H 2, 5, 8,11	I _C = -8A, I _B = -0.8A I _C = -8A, I _B = -0.4A			-1 -1	V 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			100		ns

* Pulse test: PW≤300μs, Duty cycle≤2%



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Package Demensions TO-220 9.90 ±0.20 4.50 ± 0.20 (8.70) 2.80 ± 0.10 1.30 +0.10 -0.05 Ø3.60 ±0.10 (3.70) 9.20 ±0.20 (1.46) 13.08 ±0.20 10.08 ±0.30 0.80 ±0.10 0.50 +0.10 -0.05 2.40 ±0.20 2.54TYP 2.54TYP [2.54 ±0.20] [2.54 ±0.20] 10.00 ±0.20 Dimensions in Millimeters

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