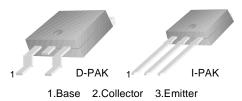
FAIRCHILD

SEMICONDUCTOR®

KSH47/50

High Voltage and High Reliability D-PAK for Surface Mount Applications

- Load Formed for Surface Mount Application (No Suffix)
 Straight Lead (I-PAK, "- I" Suffix)
- Electrically Similar to Popular TIP47 and TIP50



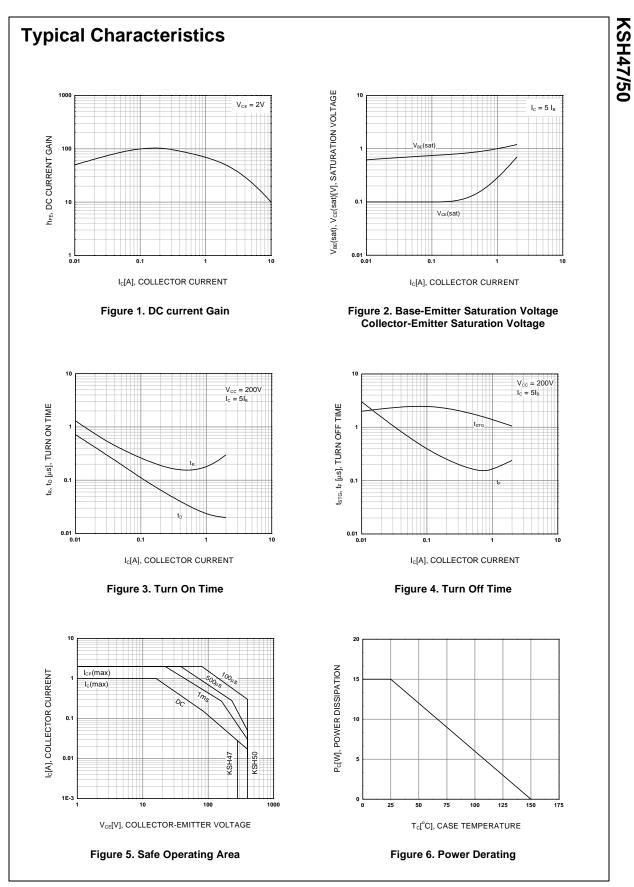
NPN Epitaxial Silicon Transistor

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Emitter Voltage		
	: KSH47	350	V
	: KSH50	500	V
V _{CEO}	Collector-Emitter Voltage		
	: KSH47	250	V
	: KSH50	400	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current (DC)	1	А
I _{CP}	Collector Current (Pulse)	2	А
I _B	Base Current	0.6	Α
P _C	Collector Dissipation (T _C =25°C)	15	W
	Collector Dissipation (T _a =25°C)	1.56	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

Absolute Maximum Ratings T ~ - ~ ~

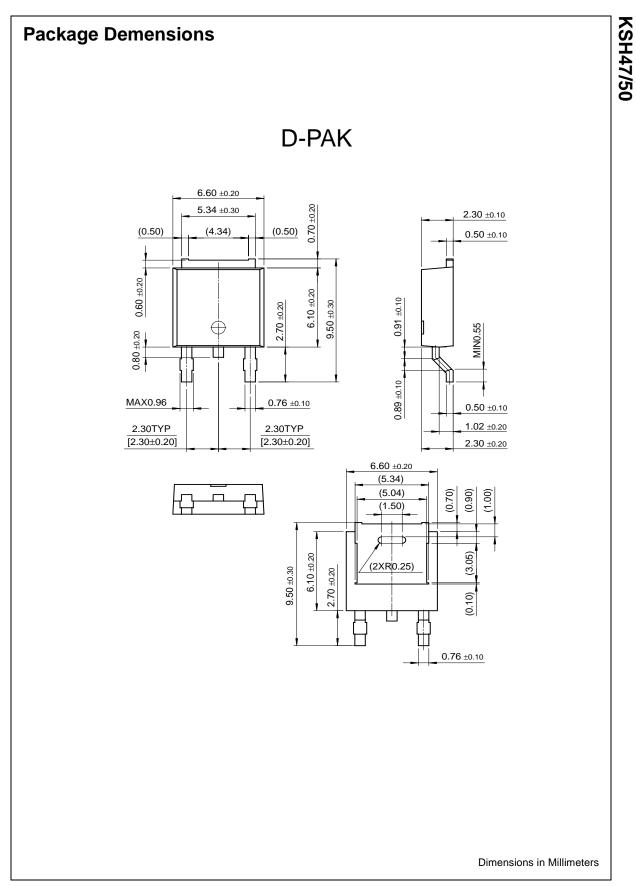
Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage				
OLO()	: KSH47	$I_{C} = 30 \text{mA}, I_{B} = 0$	250		V
	: KSH50	0 10	400		V
I _{CEO}	Collector Cut-off Current				
	: KSH47	V _{CE} = 150V, I _B = 0		0.2	mA
	: KSH50	$V_{CE} = 300V, I_B = 0$		0.2	mA
I _{CES}	Collector Cut-off Current				
	: KSH47	V _{CE} = 350, V _{EB} = 0		0.1	mA
	: KSH50	$V_{CE} = 500, V_{EB} = 0$		0.1	mA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = 5V, I_{C} = 0$		1	mA
h _{FE}	* DC Current Gain	$V_{CE} = 10V, I_{C} = 0.3A$	30	150	
		$V_{CE} = 10V, I_{C} = 1A$	10		
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	$I_{\rm C} = 1$ A, $I_{\rm B} = 0.2$ A		1	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	V _{CE} = 10A, I _C = 1A		1.5	V
fт	Current Gain Bandwidth Product	$V_{CE} = 10V, I_{C} = 0.2A$	10		MHz



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Rev. A3, June 2001



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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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