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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

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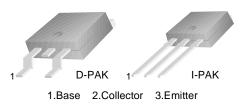
FAIRCHILD

SEMICONDUCTOR®

KSH41C

General Purpose Amplifier Low Speed Switching Applications D-PAK for Surface Mount Applications

- Lead Formed for Surface Mount Application (No Suffix)
- Straight Lead (I-PAK, "- I" Suffix)
- Electrically Similar to Popular TIP41 and TIP41C



NPN Epitaxial Silicon Transistor

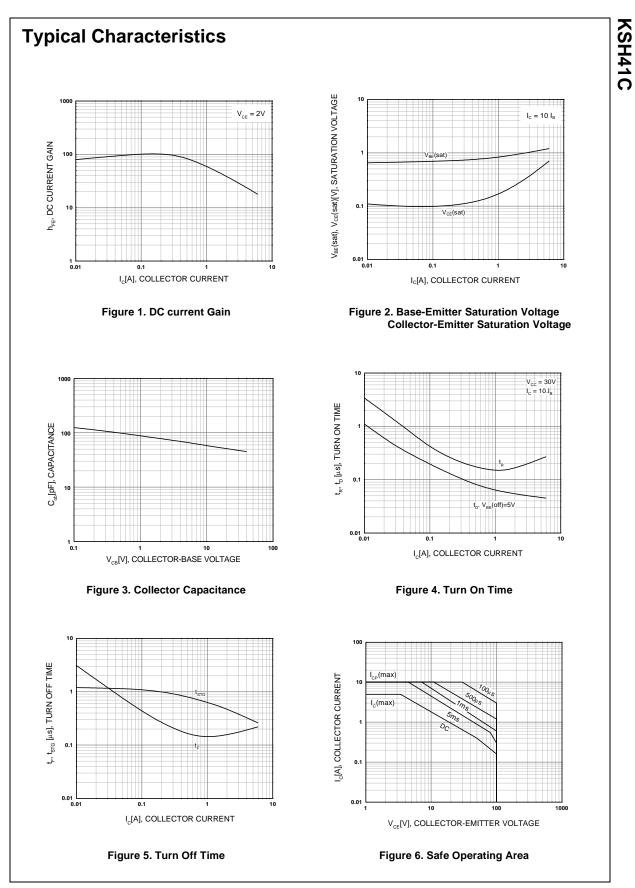
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current (DC)	6	А
I _{CP}	Collector Current (Pulse)	10	А
I _B	Base Current	2	А
P _C	Collector Dissipation (T _C =25°C)	20	W
	Collector Dissipation (T _a =25°C)	1.75	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Electrical Characteristics T_C=25°C unless otherwise noted

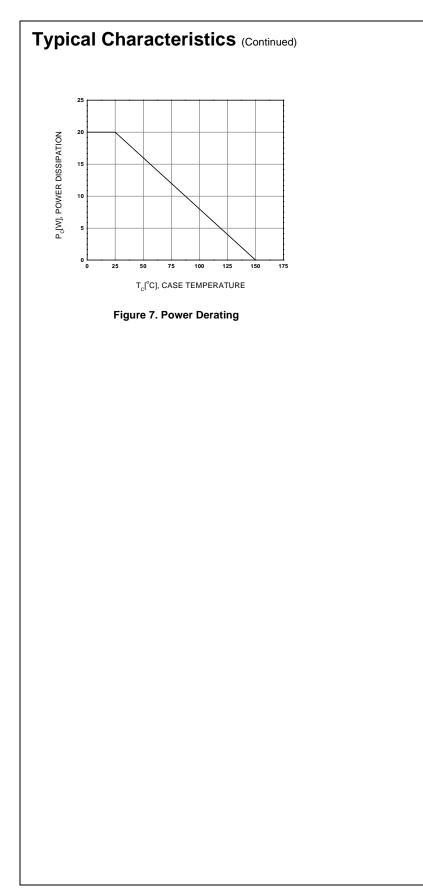
Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage	$I_{\rm C} = 30 {\rm mA}, I_{\rm B} = 0$	100		V
I _{CEO}	Collector Cut-off Current	$V_{CE} = 60V, I_B = 0$		50	μA
I _{CES}	Collector Cut-off Current	V _{CE} = 100V, V _{BE} = 0		10	uA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = 5V, I_{C} = 0$		0.5	mA
h _{FE}	* DC Current Gain	$V_{CE} = 4V, I_{C} = 0.3A$	30		
		$V_{CE} = 4V, I_{C} = 3A$	15	75	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	$I_{\rm C} = 6A, I_{\rm B} = 600 {\rm mA}$		1.5	V
V _{BE} (on)	* Base-Emitter On Voltage	$V_{CE} = 6A, I_C = 4A$		2	V
f _T	Current Gain Bandwidth Product	V _{CE} = 10V, I _C = 500mA	3		MHz

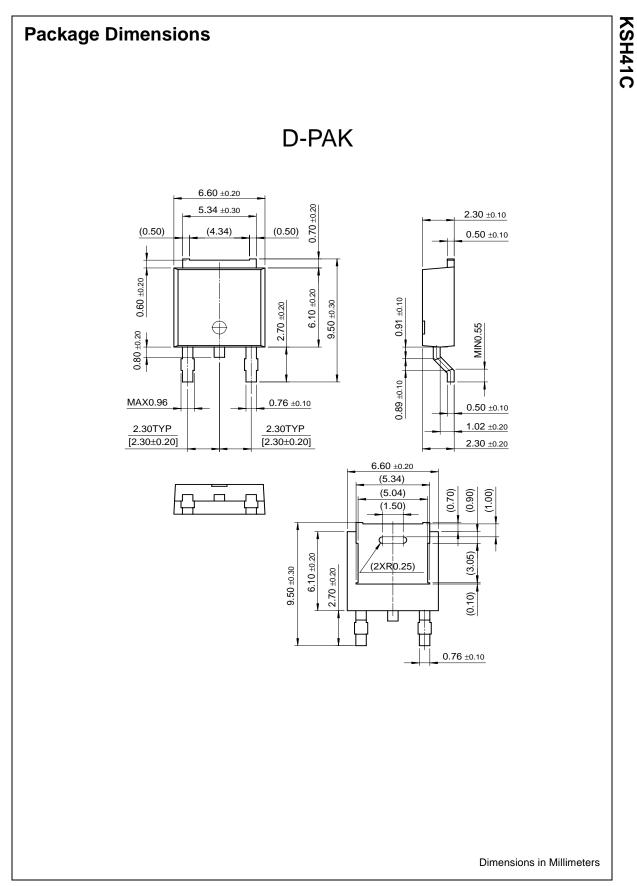
* Pulse Test: PW≤300µs, Duty Cycle≤2%

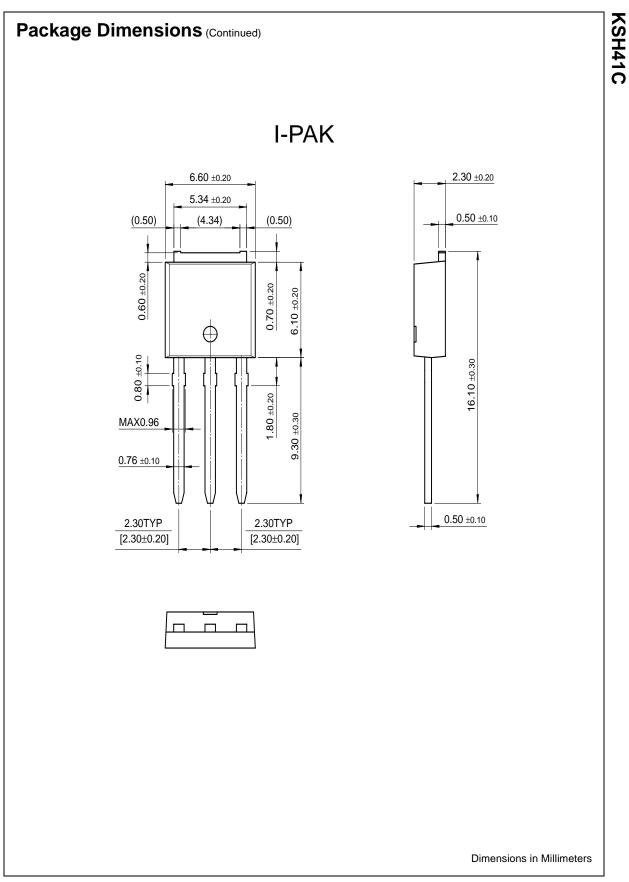


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Definition of Terms

Datasheet Identification	Product Status	Definition
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ON Semiconductor: <u>KSH41CTF</u> <u>KSH41CTM</u>



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