

- Lead Formed for Surface Mount Application (No Suffix)
- Straight Lead (I-PAK, "- I" Suffix)
- Electrically Similar to Popular TIP42C



1.Base 2.Collector 3.Emitter

KSH42C

PNP 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	A
I _{CP}	Collector Current (Pulse)	-10	A
I _B	Base Current	-2	A
P _C	Collector Dissipation (T _C =25°C)	20	W
	Collector Dissipation (T _a =25°C)	1.75	W
ТJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

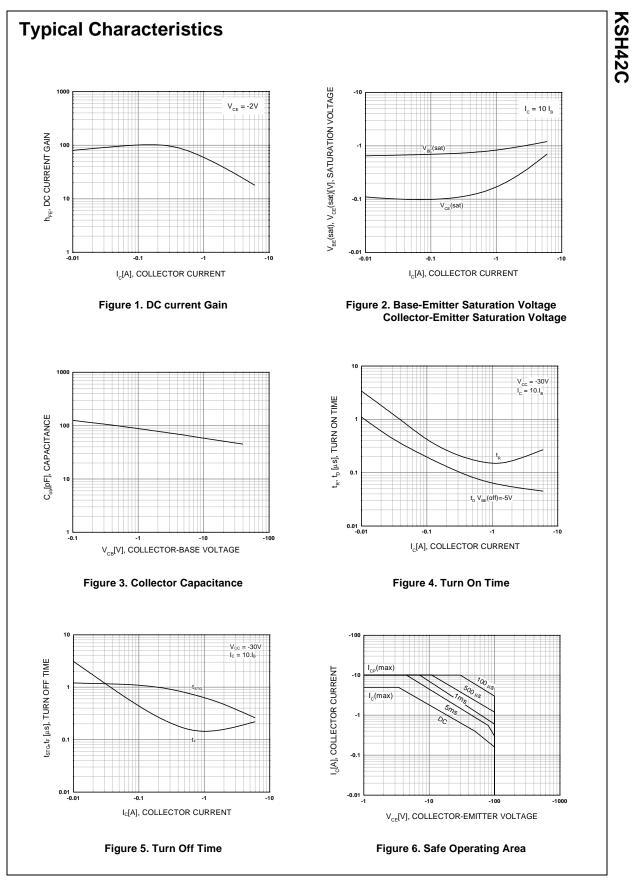
Absolute Maximum Ratings T_C=25°C unless otherwise noted

Electrical Characteristics T_C=25°C unless otherwise noted

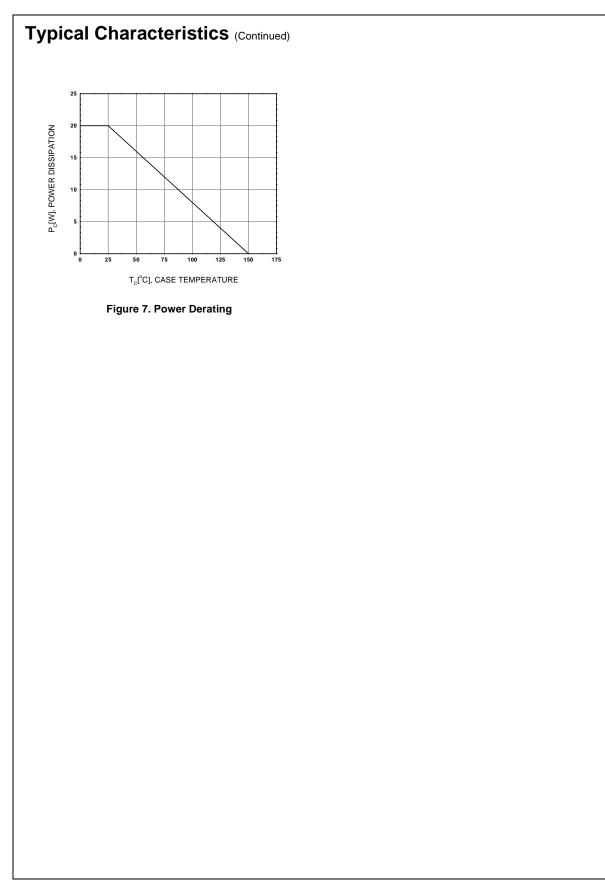
Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage	I _C = - 30mA, I _B = 0	-100		V
I _{CEO}	Collector Cut-off Current	$V_{CE} = -60V, I_B = 0$		-50	μA
I _{CES}	Collector Cut-off Current	$V_{CE} = -100V, V_{BE} = 0$		-10	μA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = -5V, I_{C} = 0$		-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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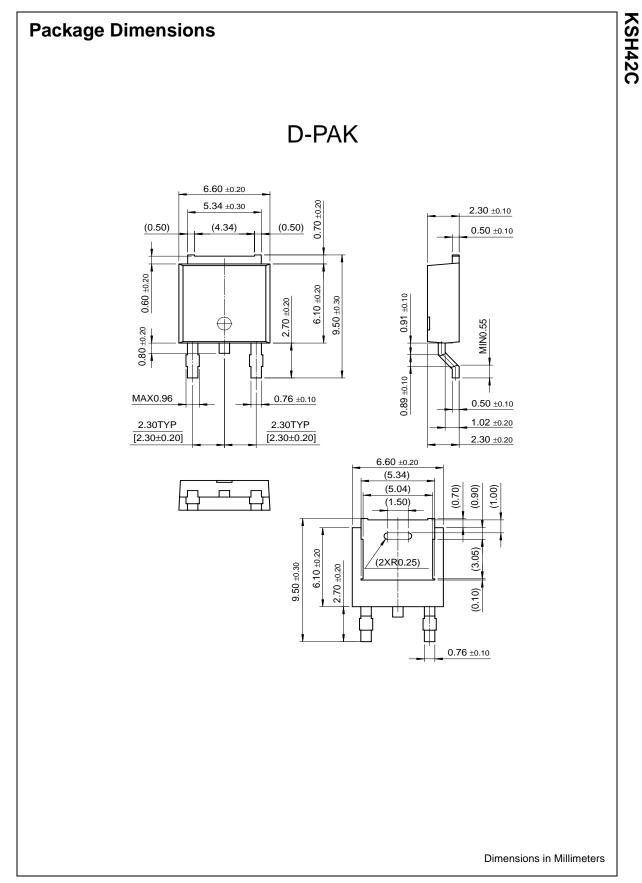


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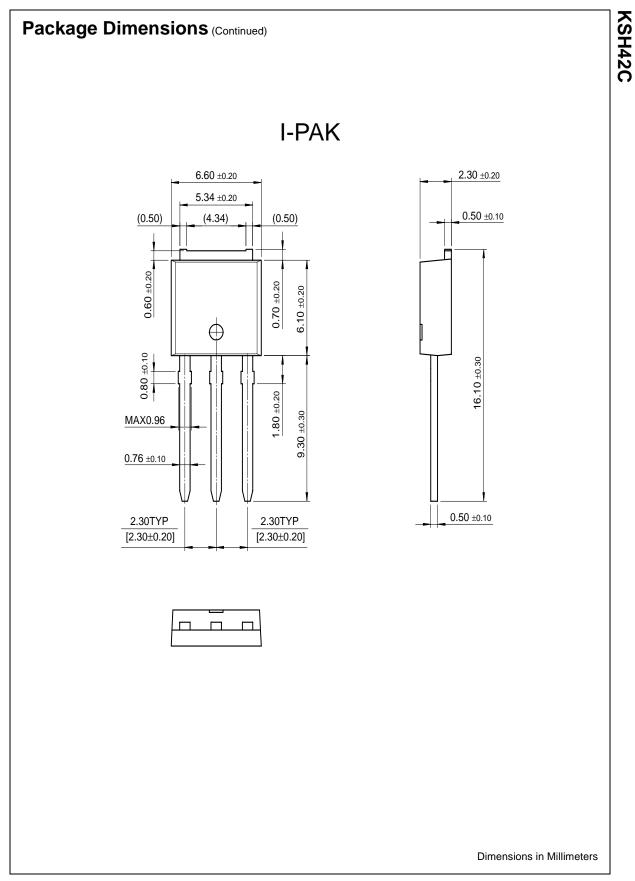


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KSH42C



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