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FAIRCHILD

SEMICONDUCTOR®

KSH32/32C

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 TIP32 and TIP32C



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage : KSH32	- 40	V
	: KSH32C	- 100	V
V _{CEO}	Collector-Emitter Voltage : KSH32	- 40	V
	: KSH32C	- 100	V
V _{EBO}	Emitter-Base Voltage	- 5	V
I _C	Collector Current (DC)	- 3	А
I _{CP}	Collector Current (Pulse)	- 5	A
I _B	Base Current	- 1	A
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

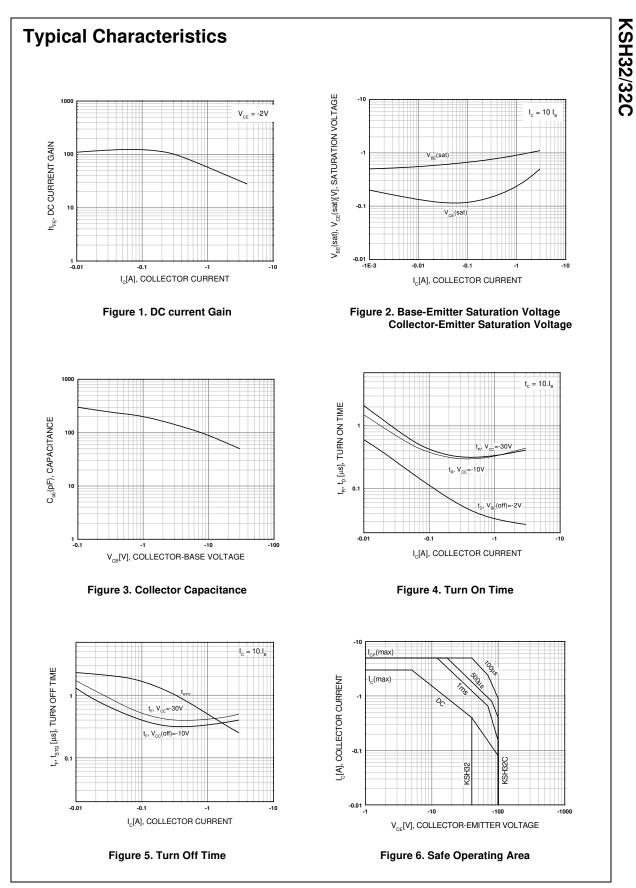
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage				
020()	: KŠH32	I _C = - 30mA, I _B = 0	-40		V
	: KSH32C	с <u>-</u>	-100		V
ICEO	Collector Cut-off Current				
020	: KSH32	$V_{CE} = -40V, I_{B} = 0$		-50	μΑ
	: KSH32C	$V_{CE} = -60V, I_B = 0$		-50	μA
I _{CES}	Collector Cut-off Current				
	: KSH32	$V_{CE} = -40V, V_{BE} = 0$		-20	μA
	: KSH32C	$V_{CE} = -100V, V_{BE} = 0$		-20	μA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = -5V, I_{C} = 0$		-1	mA
h _{FE}	* DC Current Gain	V _{CE} = - 4V, I _C = - 1A	25		
		$V_{CE} = -4V, I_{C} = -3A$	10	50	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = - 3, I _B = - 375mA		-1.2	V
V _{BE} (on)	* Base-Emitter On Voltage	V _{CE} = - 4A, I _C = - 3A		-1.8	V
f⊤	Current Gain Bandwidth Product	V _{CE} = -10V, I _C = - 500mA	3		MHz

Pulse Test: PW≤300µs, Duty Cycle≤2%

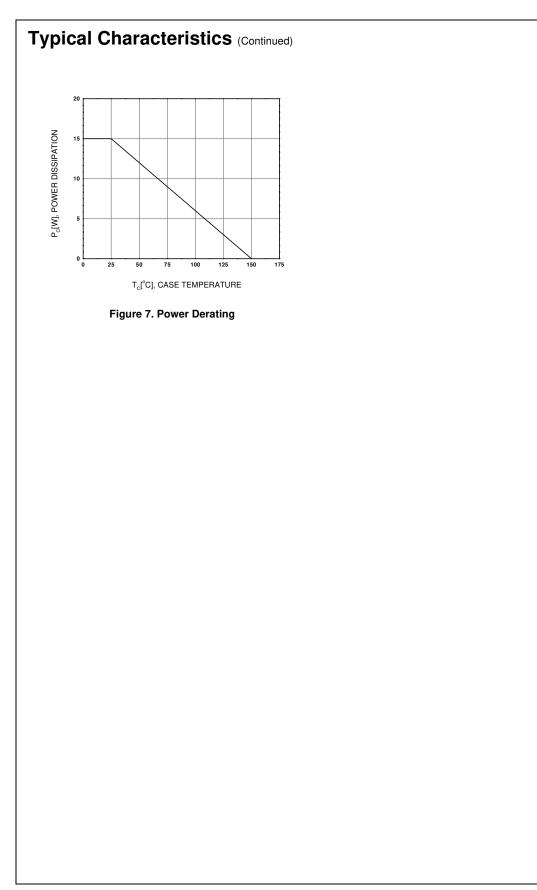
KSH32/32C

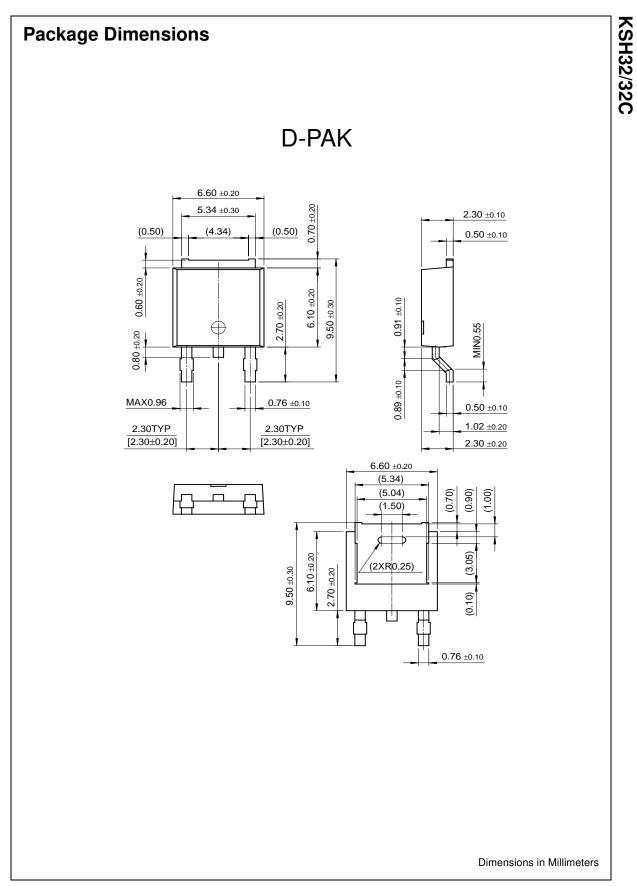
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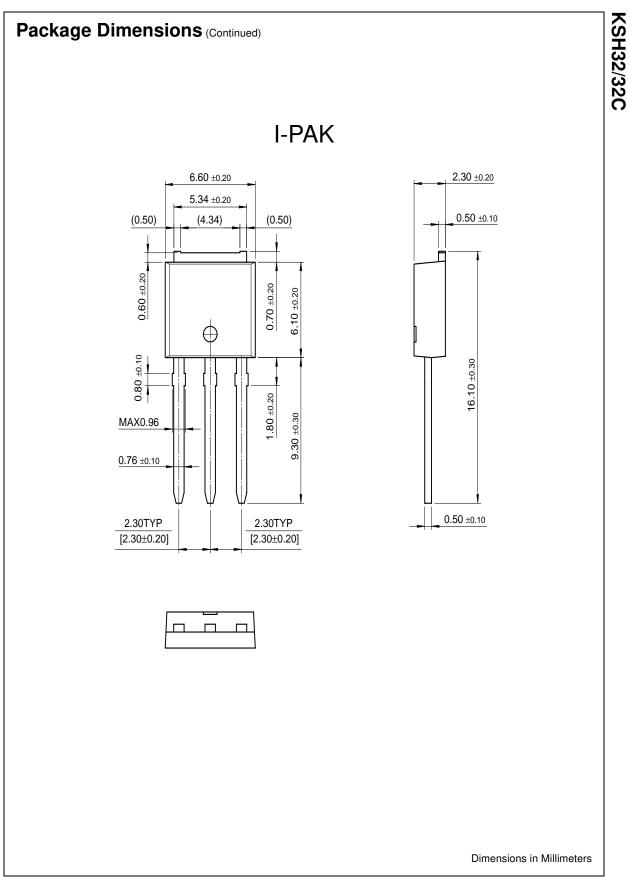


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