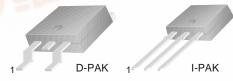


KSH29/29C

General Purpose Amplifier Low Speed Switching Applications

- Lead Formed for Surface Mount Application (No Suffix)
 Straight Lead (I-PAK, "- I" Suffix)
- Electrically Similar to Popular TIP29 and TIP29C



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage		
	: KSH29	40	V
	: KSH29C	100	V
V _{CEO}	Collector-Emitter Voltage		
	: KSH29	40	V
	: KSH29C	100	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current (DC)	1	Α
I _{CP}	Collector Current (Pulse)	3	Α
I _B	Base Current	0.4	А
P _C	Collector Dissipation (T _C =25°C)	15	W
	Collector Dissipation (T _a =25°C)	1.56	W
T _J	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 _{CFO} (sus)	Collector-Emitter Sustaining Voltage				
0201	: KSH29	$I_C = 30 \text{mA}, I_B = 0$	40		V
	: KSH29C		100	' 1 Y'	V
I _{CEO}	Collector Cut-off Current		77.4	Or.	
020	: KSH29	$V_{CE} = 40V, I_{B} = 0$	AN AN A	50	μΑ
	: KSH29C	$V_{CE} = 60V, I_{B} = 0$		50	μA
I _{CES}	Collector Cut-off Current				
	: KSH29	$V_{CE} = 40V, V_{BE} = 0$		20	μΑ
	: KSH29C	$V_{CE} = 100V, V_{BE} = 0$		20	μΑ
ЕВО	Emitter Cut-off Current	$V_{BE} = 5V, I_{C} = 0$		1	mA
h _{FE}	DC Current Gain	$V_{CE} = 4V, I_{C} = 0.2A$	40		
	and the second s	$V_{CE} = 4V$, $I_C = 1A$	15	75	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 1A, I _B = 125mA		0.7	V
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = 4A, I_{C} = 1A$		1.3	V
f _T	Current Gain Bandwidth Product	$V_{CF} = 10V, I_{C} = 200mA$	3		MHz

Typical Characteristics

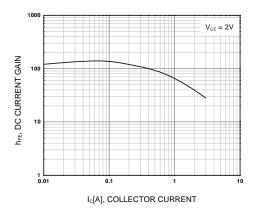


Figure 1. DC current Gain

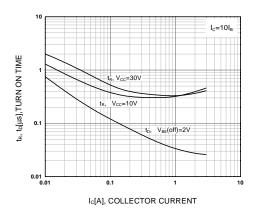


Figure 3. Turn On Time

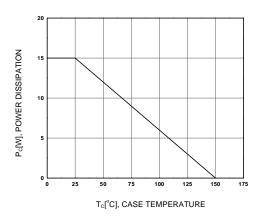


Figure 5. Power Derating

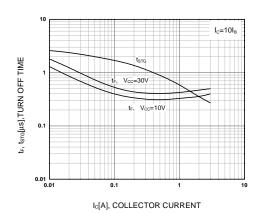


Figure 2. Turn Off Time

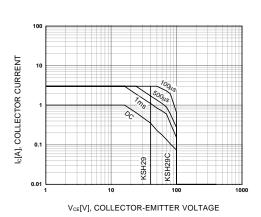
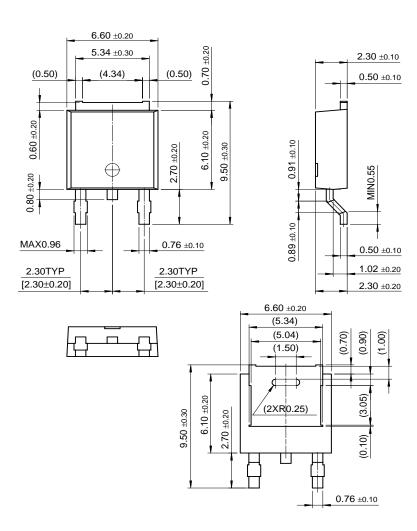


Figure 4. Safe Operating Area

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Package Dimensions

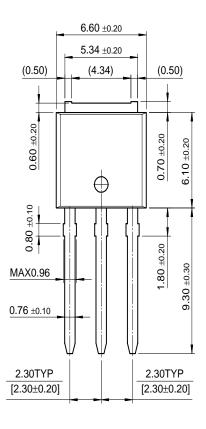
D-PAK

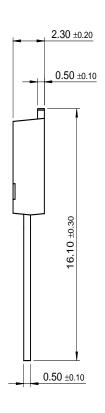


Dimensions in Millimeters

Package Dimensions (Continued)

I-PAK







Dimensions in Millimeters

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DOME™	GlobalOptoisolator™	MICROWIRE™	QS™	SyncFET™
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E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I^2C^{TM}	OCX^{TM}	RapidConfigure™	UHC™
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Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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