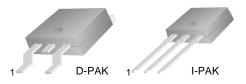


KSH2955

General Purpose Amplifier Low Speed Switching Applications D-PAK for Surface Mount Applications Lead Formed for Surface Mount Applications (No Suffix) Straight Lead (I-PAK, "-I " Suffix)

- Electrically Similar to Popular KSE2955T
- DC Current Gain Specified to 10A
- High Current Gain Bandwidth Product: $f_T = 2MHz (MIN), I_C = -500mA$



1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	- 70	V
V _{CEO}	Collector-Emitter Voltage	- 60	V
V _{EBO}	Emitter-Base Voltage	- 5	V
I _C	Collector Current	- 10	Α
I _B	Base Current	- 6	Α
P _C	Collector Dissipation (T _C =25°C)	20	W
	Collector Dissipation (T _a =25°C)	1.75	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 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	$I_C = -30 \text{mA}, I_B = 0$	-60		V
I _{CEO}	Collector Cut-off Current	$V_{CE} = -30V, I_{E} = 0$		- 50	μΑ
I _{CBO}	Collector Cut-off Current	$V_{CB} = -70V, I_{E} = 0$		- 2	mA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$		- 0.5	mA
h _{FE}	* DC Current Gain	$V_{CE} = -4V, I_{C} = -4A$ $V_{CE} = -4V, I_{C} = -10A$	20 5	100	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	$I_C = -4A, I_B = -0.4A$ $I_C = -10A, I_B = -3.3A$		- 1.1 - 8	V V
V _{BE} (on)	* Base-Emitter On Voltage	V _{CE} = - 4V, I _C = - 4A		-1.8	V
f _T	Current Gain Bandwidth Product	V _{CE} = - 10V, I _C = - 500mA	2		MHz

^{*} Pulse Test: PW≤300ms, Duty Cycle≤2%

Typical Characteristics

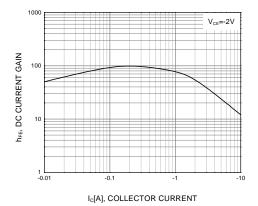


Figure 1. DC current Gain

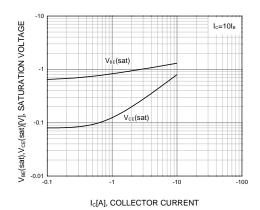


Figure 2. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

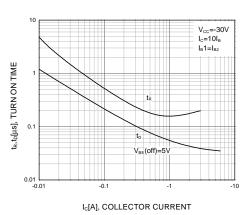


Figure 3. Turn On Time

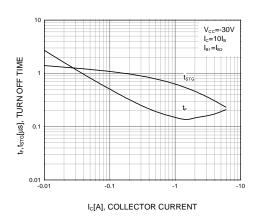


Figure 4. Turn Off Time

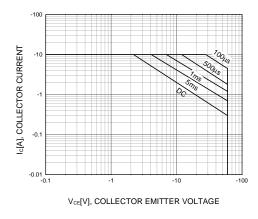


Figure 5. Safe Operating Area

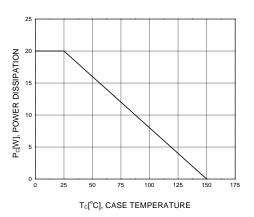
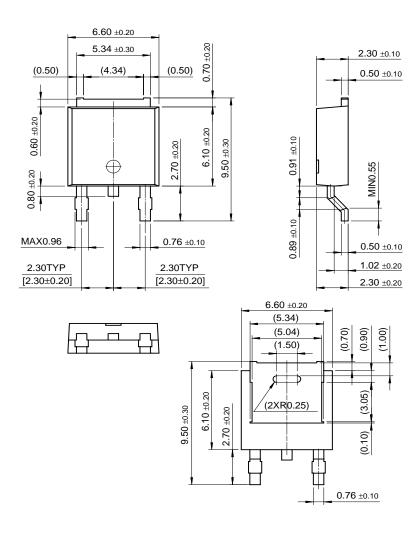


Figure 6. Power Derating

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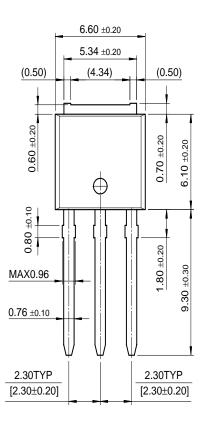
Package Dimensions

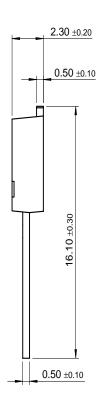
D-PAK



Package Dimensions (Continued)

I-PAK







Dimensions in Millimeters

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E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I^2C^{TM}	OCX^{TM}	RapidConfigure™	UHC™
Across the board. Around the world.™		OCXPro™	RapidConnect™	UltraFET [®]
The Power Franchise™		OPTOLOGIC [®]	SILENT SWITCHER®	VCX TM
Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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