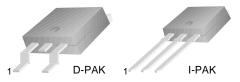


KSH3055

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 KSE3055T
- DC Current Gain Specified to 10A
- High Current Gain Bandwidth Product: $f_T = 2MHz (MIN), I_C = 500mA$



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

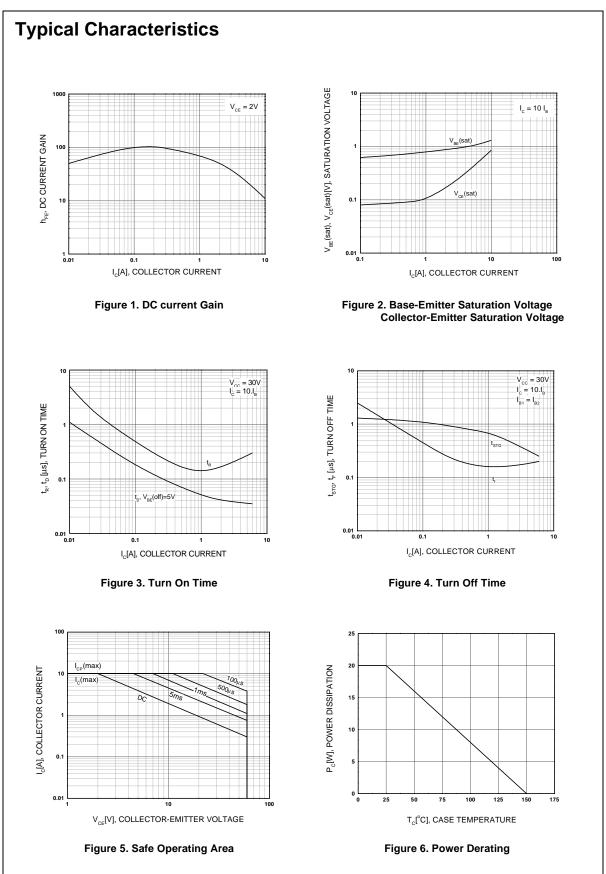
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	70	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	10	Α
I _B	Base Current	6	Α
P _C	Collector Dissipation (T _C =25°C)	20	W
	Collector Dissipation (T _a =25°C)	1.75	W
T _J	Junction Temperature	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≤300μs, Duty Cycle≤2%

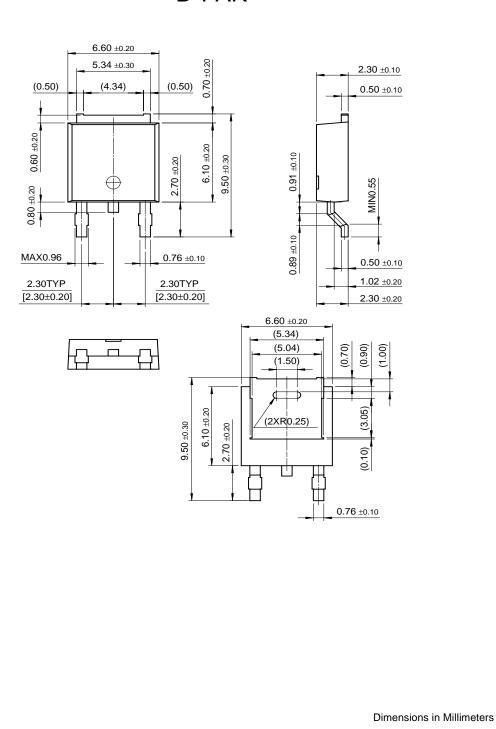
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Package Dimensions

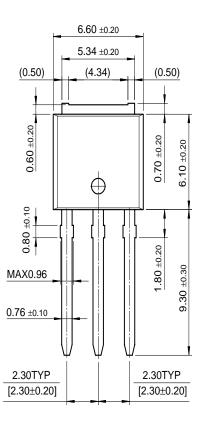
D-PAK

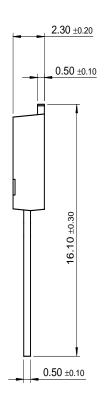


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Package Dimensions (Continued)

I-PAK







Dimensions in Millimeters

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CoolFET™	FASTr™	MicroFET™	PowerTrench [®]	SuperSOT™-6
$CROSSVOLT^{TM}$	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I ² C™	OCXTM	RapidConfigure™	UHC™
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The Power Franchise™		OPTOLOGIC [®]	SILENT SWITCHER®	VCX^{TM}
Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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