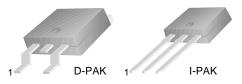


KSH127

D-PAK for Surface Mount Applications

- High DC Current Gain
- Built-in a Damper Diode at E-C
- Lead Formed for Surface Mount Applications (No Suffix)
- Straight Lead (I-PAK, " I " Suffix)
- Electrically Similar to Popular TIP127
- Complement to KSH122

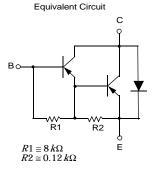


1.Base 2.Collector 3.Emitter

PNP Silicon Darlington Transistor

Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

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)	- 8	Α
I _{CP}	Collector Current (Pulse)	- 16	Α
I _B	Base Current	- 120	mA
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 - 65 ~ 150 °C		°C

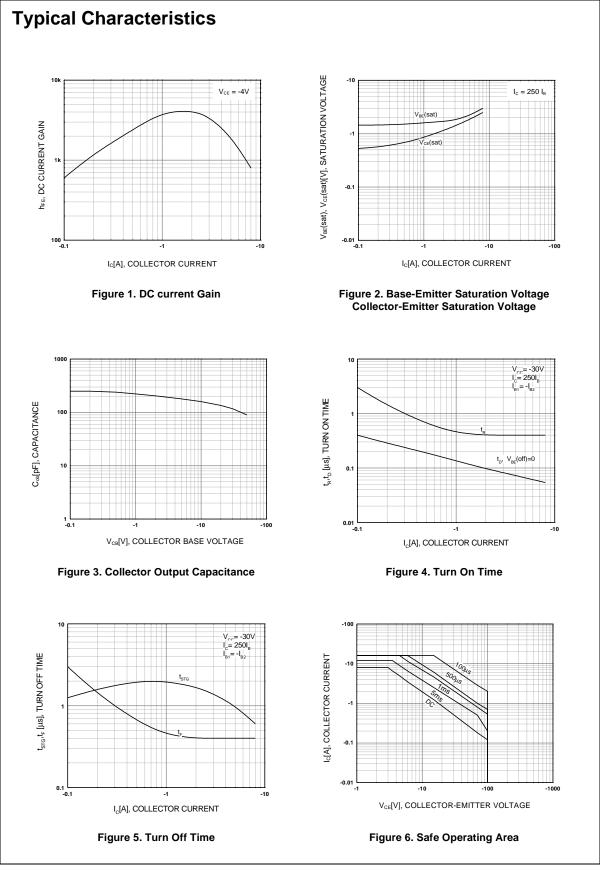


Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	*Collector-Emitter Sustaining Voltage	$I_C = -30 \text{mA}, I_B = 0$	- 100		V
I _{CEO}	Collector Cut-off Current	$V_{CE} = -50V, I_{B} = 0$		- 10	μΑ
I _{CBO}	Collector Cut-off Current	$V_{CB} = -100V, I_{E} = 0$		- 10	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$		- 2	mA
h _{FE}	*DC Current Gain	V _{CE} = - 4V, I _C = - 4A V _{CE} = - 4V, V _{EB} = -8A	1000 100	12K	
V _{CE} (sat)	*Collector-Emitter Saturation Voltage	$I_C = -4A, I_B = -16mA$ $I_C = -8A, I_B = -80mA$		- 2 - 4	V V
V _{BE} (sat)	*Base-Emitter Saturation Voltage	I _C = -8A, I _B = -80mA		- 4.5	V
V _{BE} (on)	*Base-Emitter On Voltage	$V_{CE} = -4V, I_{C} = -4A$		- 2.8	V
C _{ob}	Output Capacitance	$V_{CB} = -10V, I_{E} = 0$ f= 0.1MHz		300	pF

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

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Typical Characteristic (Continued)

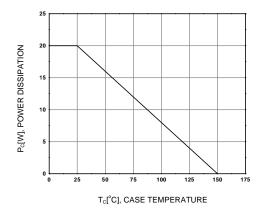
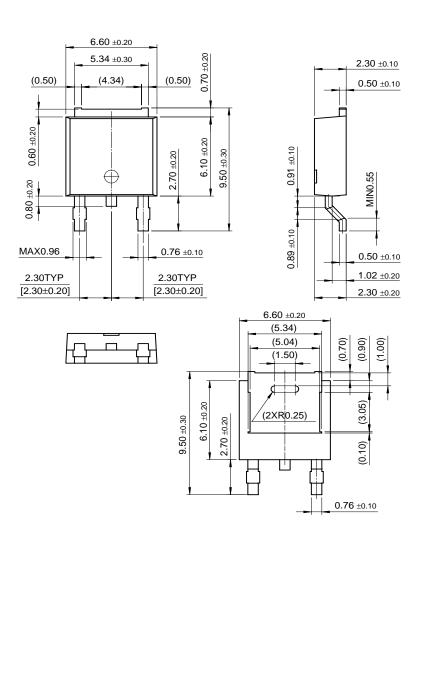


Figure 7. Power Derating

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Package Dimensions

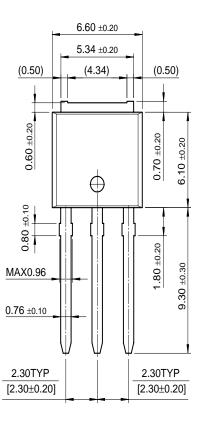
D-PAK

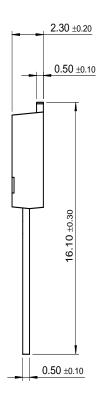


Dimensions in Millimeters

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
DOME™	GlobalOptoisolator™	MICROWIRE™	QS TM	SyncFET™
EcoSPARK™	GTO™	MSX™	QT Optoelectronics™	TinyLogic™
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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