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FAIRCHILD

SEMICONDUCTOR TM

KSD1692

Feature

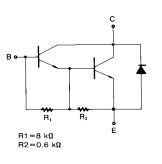
- High Dc Durrent Gain
- Low Collector Saturation Voltage
- Built-in a Damper Diode at E-C
- High Power Dissipation : P_C = 1.3W (Ta=25°C)



NPN Silicon Darlington Transistor

ADSOIUTE MAXIMUM Ratings 1 _C =25°C unless otherwise noted			
Sym- bol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	150	V
V _{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	8	V
Ι _C	Collector Current (DC)	3	Α
I _{CP}	*Collector Current (Pulse)	5	А
P _C	Collector Dissipation (T _a =25°C)	1.3	А
Ρ _C	Collector Dissipation (T _C =25°C)	15	W
TJ	Junction Temperature 150 W		W





T_{STG} Storage Temperature * PW≤10ms, duty Cycle≤50%

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
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 _{FE1} h _{FE2}	*DC Current Gain	$V_{CE} = 2V, I_{C} = 1.5A$ $V_{CE} = 2V, I_{C} = 3A$	2K 1K		20K	
V _{CE} (sat)	*Collector-Emitter Saturation Voltage	I _C = 1.5A, I _B = 1.5mA		0.9	1.2	V
V _{BE} (sat)	*Base-Emitter Saturation Voltage	I _C = 1.5A, I _B = 1.5mA		1.5	2	V
t _{ON}	Turn ON Time	$V_{CC} = 40V, I_{C} = 1.5A$		0.5		μs
t _{STG}	Storage Time	$I_{B1} = -I_{B2} = 1.5 \text{mA}$		2		μs
t _F	Fall Time	$R_L = 27\Omega$		1		μs

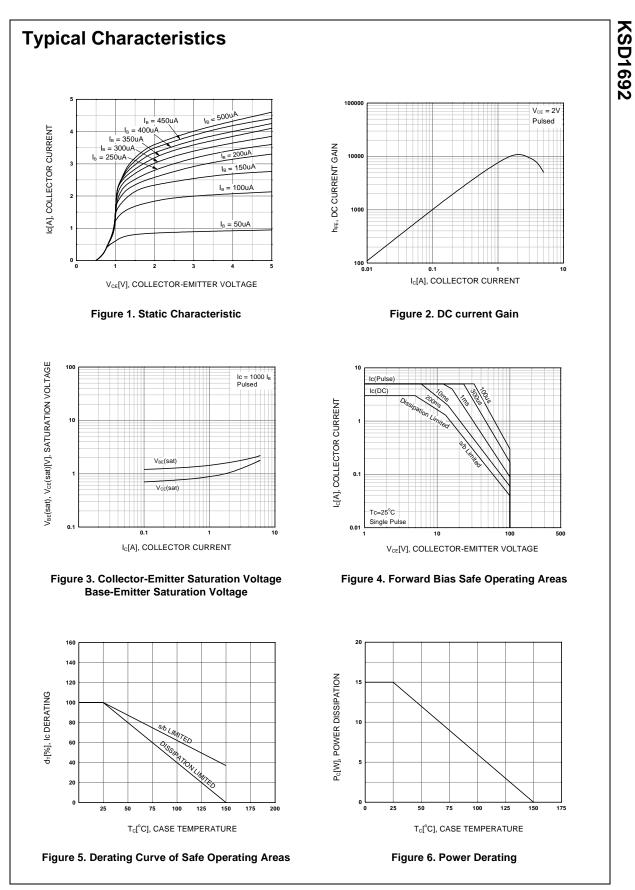
- 55 ~ 150

°C

* Pulse test: PW≤350µs, duty Cycle≤2% Pulsed

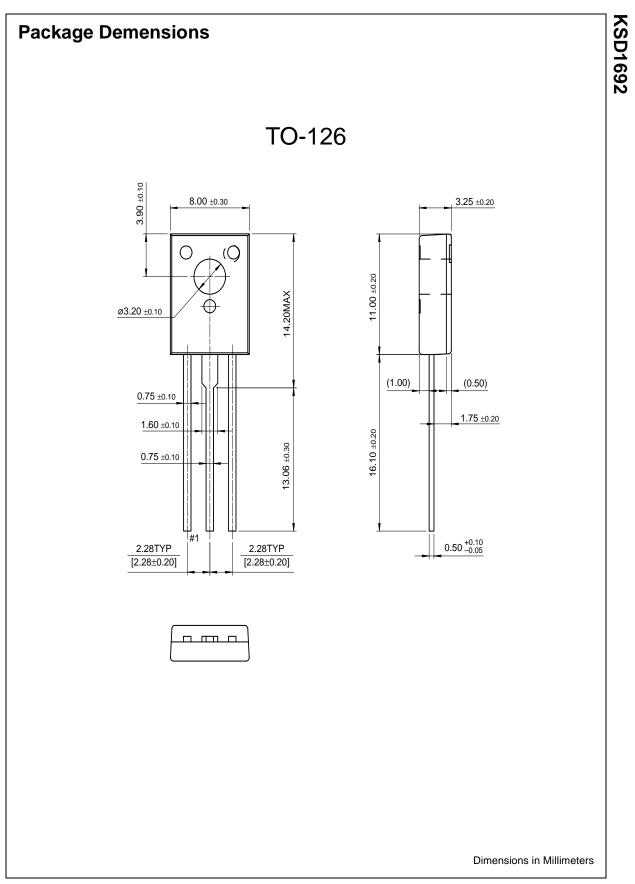
h_{FE} Classificntion

Classification	0	Y	G
h _{FE1}	2000 ~ 5000	4000 ~ 12000	6000 ~ 20000



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ООО "ЛайфЭлектроникс"

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Тел: +7 (812) 336 43 04 (многоканальный) Email: org@lifeelectronics.ru

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