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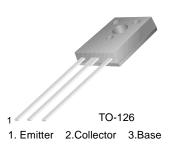
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KSA1156

High Voltage Switching Low Power Switching Regulator DC-DC Converter

- High Breakdown Voltage
- Low Collector Saturation Voltage
- High Speed Switching



KSA1156

PNP Silicon Transistor

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

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	- 400	V
V _{CEO}	Collector-Emitter Voltage	- 400	V
V _{EBO}	Emitter-Base Voltage	- 7	V
I _B	Base Current	- 0.25	А
I _C	Collector Current (DC)	- 0.5	А
I _{CP}	Collector Current (Pulse)	- 1	А
P _C	Collector Dissipation (T _a =25°C)	1	W
P _C P _C	Collector Dissipation (T _C =25°C)	10	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

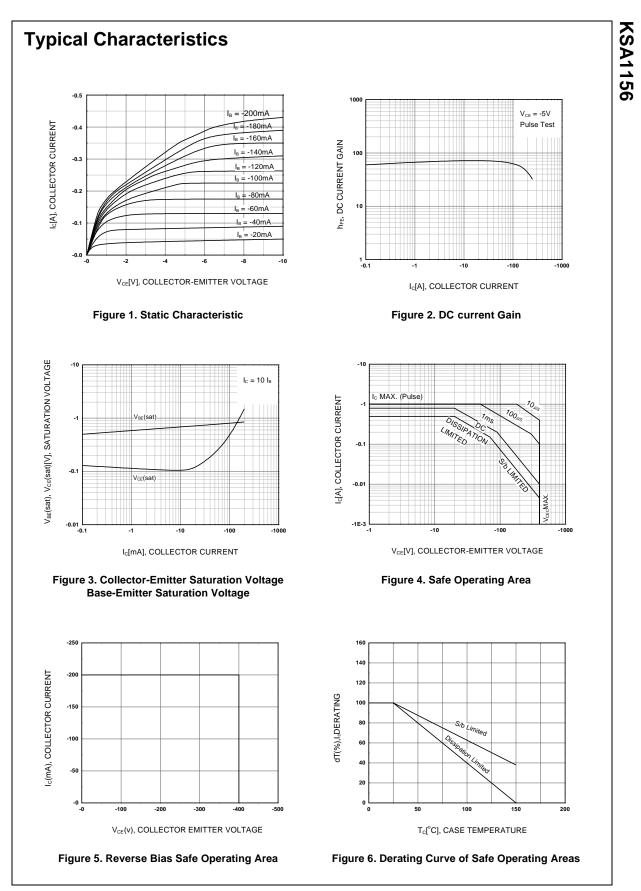
Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	Collector-Emitter Sustaining Voltage	I _C = - 100mA, I _B = - 10mA L = - 20mH	- 400		V
V _{CEX} (sus)	Collector-Emitter Sustaining Voltage	I _C = - 200mA, I _{B1} = - I _{B2} = - 20mA V _{BE} (off)= 5V, L = 10mH	- 400		V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -400V, I_E = 0$		- 100	μA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$		- 10	μA
I _{CEX1}	Collector Cut-off Current	$V_{CE} = -400V, V_{BE}(off) = 1.5V$		- 100	μA
I _{CEX2}	Collector Cut-off Current	$V_{CE} = -400V, V_{BE}(off) = 1.5V$ $T_{C} = 125^{\circ}C$		- 1	mA
h _{FE}	DC Current Gain	V _{CE} = - 5V, I _C = - 100mA	30	200	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = - 100mA, I _B = - 10mA		- 1	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = - 100mA, I _B = - 10mA		- 1.2	V
t _{ON}	Turn On Time	V _{CC} = - 150V, I _C = - 100mA		1	μs
t _{STG}	Storage Time	I _{B1} = - 10mA , I _{B2} = 20mA		4	μs
t _F	Fall Time	$R_{L} = 1.5 K\Omega$		1	μs

h_{FE} Classification

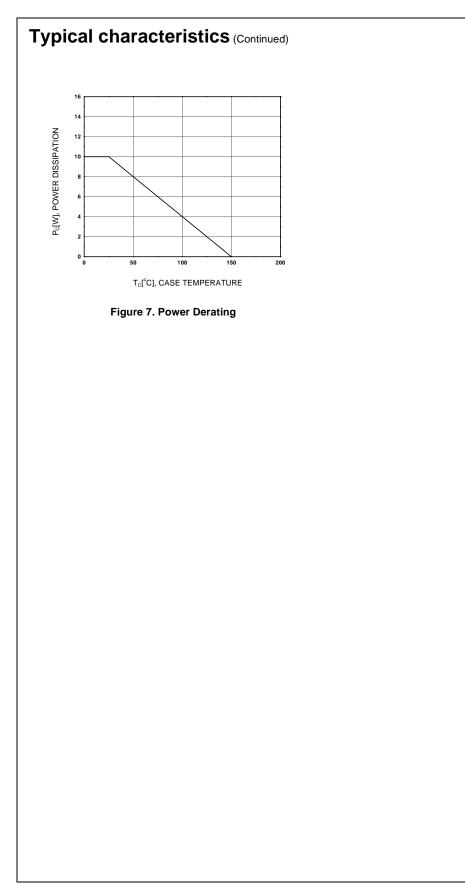
Classification	Ν	R	0	Y
h _{FE}	30 ~ 60	40 ~ 80	60 ~ 120	100 ~ 200

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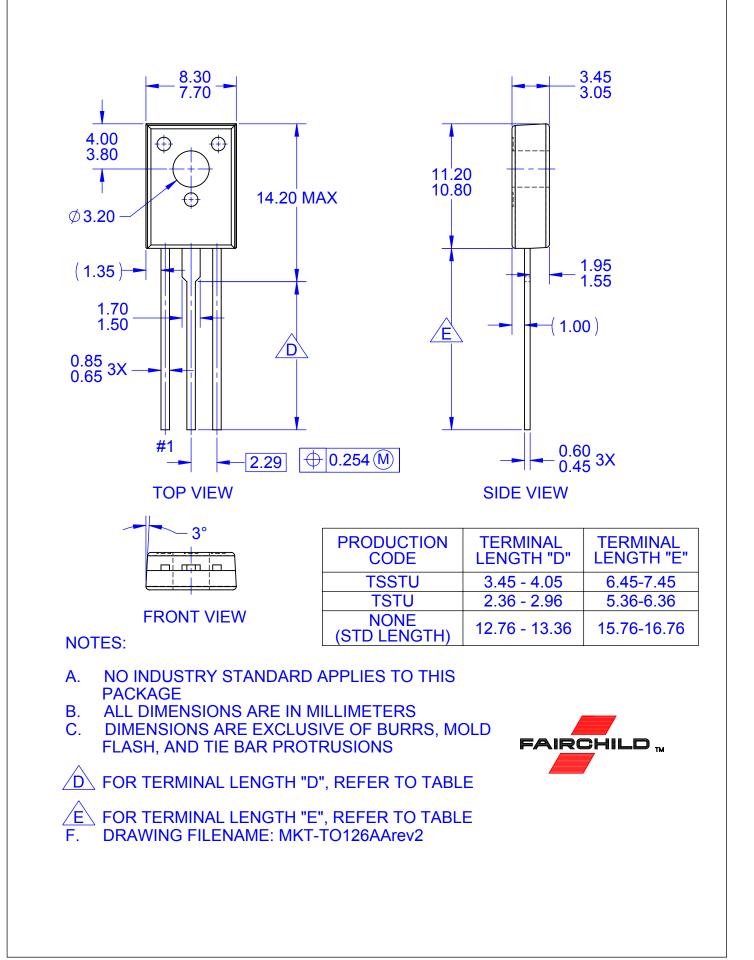


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