

SEMICONDUCTOR TM

KSC3502

CRT Display, Video Output

- High Voltage : V_{CEO}=200V
 Low Reverse Transfer Capacitance: C_{re}=1.2pF @ V_{CB}=30V



NPN Epitaxial Silicon Transistor

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

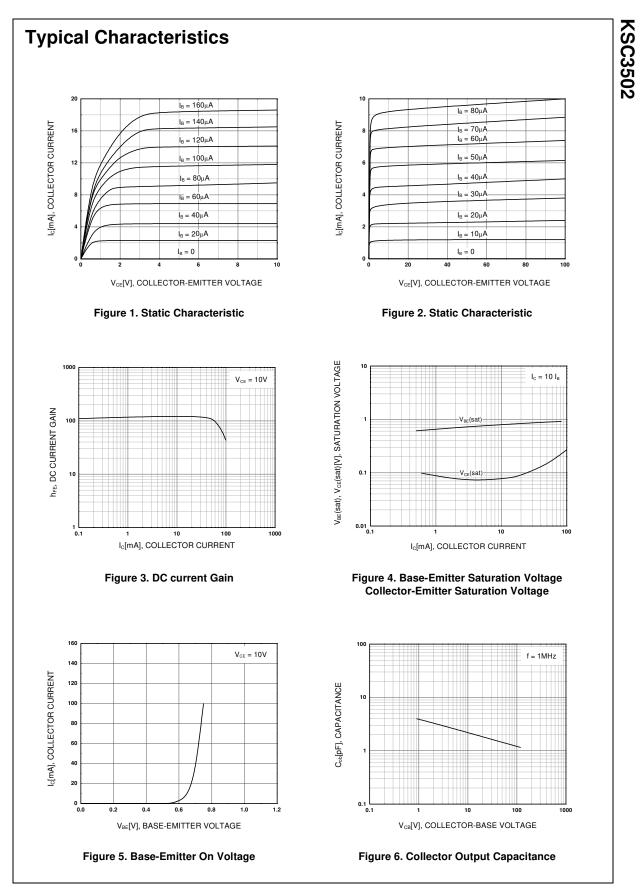
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	200	V
V _{CEO}	Collector-Emitter Voltage	200	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current (DC)	100	mA
I _{CP}	Collector Current (Pulse)	200	mA
P _C	Collector Dissipation (T _C =25°C)	5	W
P _C	Collector Dissipation (T _a =25°C)	1.2	W
TJ	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.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	l _C = 10μA, l _E = 0	200			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA, I _B = 0	200			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{E} = 10 \mu A, I_{C} = 0$	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} = 150V, I _E = 0			0.1	μA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 4V, I_{C} = 0$			0.1	μA
h _{FE}	DC Current Gain	$V_{CE} = 10V, I_{C} = 10mA$	40		320	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 20mA, I _B = 2mA			0.6	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 20mA, I _B = 2mA			1	V
f _T	Current Gain Bandwidth Product	V _{CE} = 30V, I _C = 10mA		150		MHz
C _{ob}	Output Capacitance	V _{CB} = 30V, f= 1MHz		1.7		pF
C _{re}	Reverse Transfer Capacitance	V _{CB} = 30V, f= 1MHz		1.2		pF

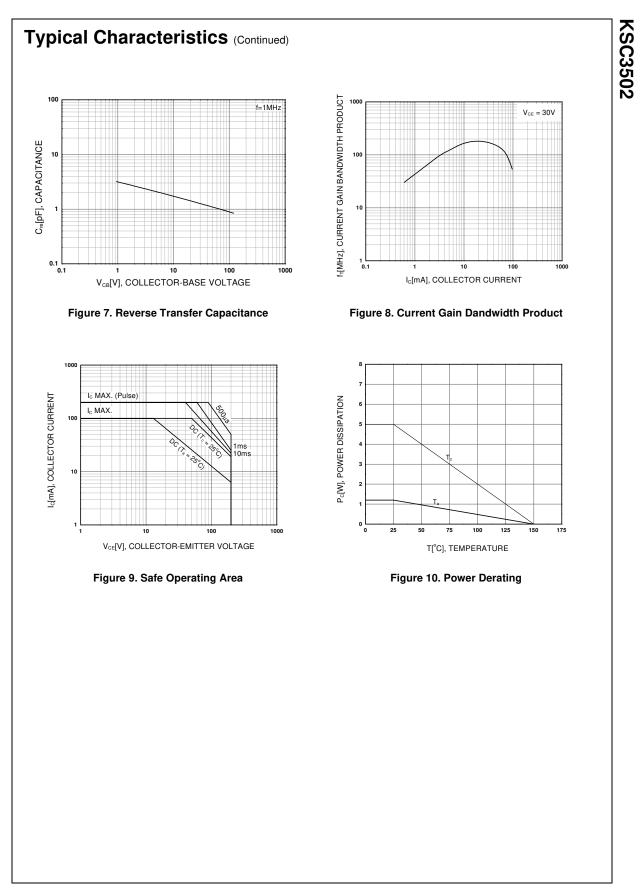
h_{FE} Classification

Classification	С	D	E	F
h _{FE}	40 ~ 80	60 ~ 120	100 ~ 200	160 ~ 320

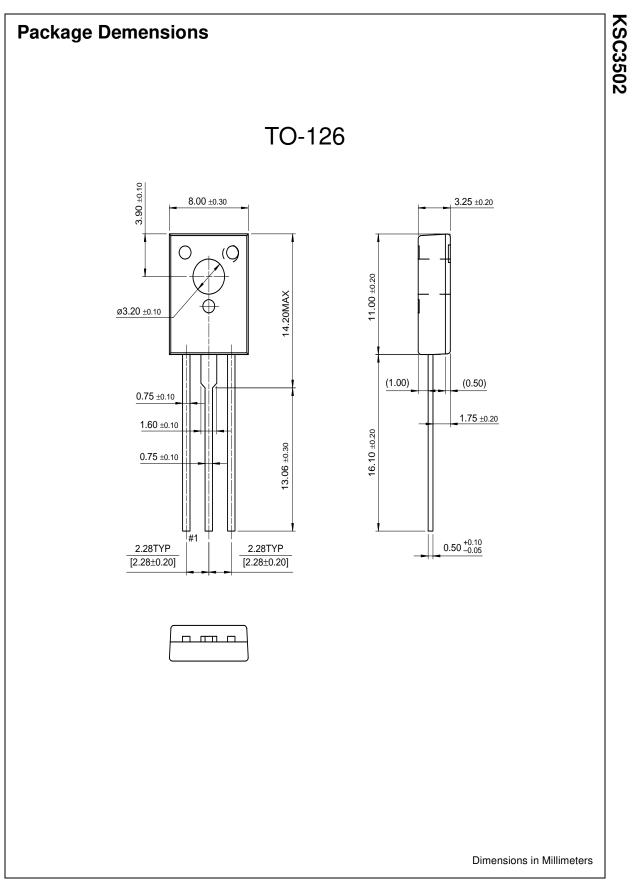


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