

FJC2383

Color TV Audio Output & Color TV Vertical Deflection Output



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

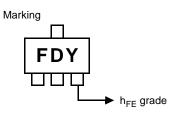
Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	160	V
V _{CEO}	Collector-Emitter Voltage	160	V
V_{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current	1	Α
I _B	Base Current	0.5	Α
P _C	Collector Power Dissipation	500	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} =150V, I _E =0			1	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB}=6V$, $I_{C}=0$			1	μΑ
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA, I _B =0	160			V
h _{FE}	DC Current Gain	V _{CE} =5V, I _C =200mA	100		320	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =500mA, I _B =50mA			1.5	V
V _{BE} (on)	Base-Emitter On Voltage	V_{CE} =5V, I_{C} =5mA	0.45		0.75	V
f _T	Current Gain Bandwidth Product	V _{CE} =5V, I _C =200mA	20	100		MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		20	pF	

h_{FE} Classification

Classification	0	Υ	
h _{FE}	100 ~ 200	160 ~ 320	



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Typical Characteristics

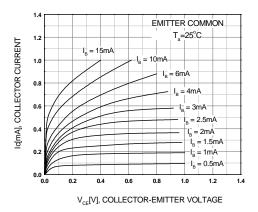


Figure 1. Static Characteristic

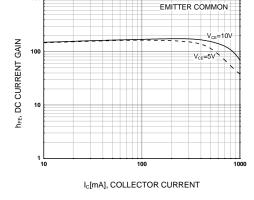


Figure 2. DC current Gain

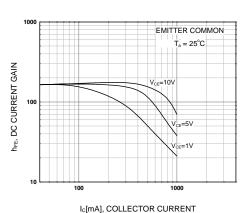


Figure 3. DC current Gain

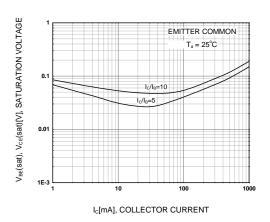


Figure 4. Collector-Emitter Saturation Voltage

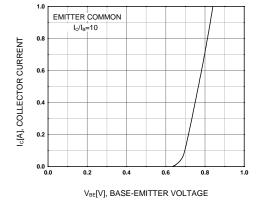


Figure 5. Base-Emitter On Voltage

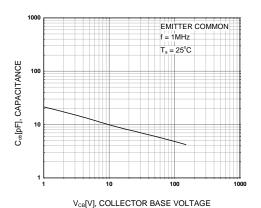


Figure 6. Collector Output Capacitance

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Typical Characteristics (Continued)

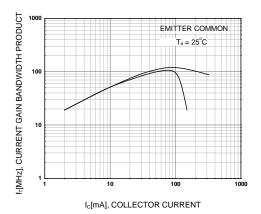
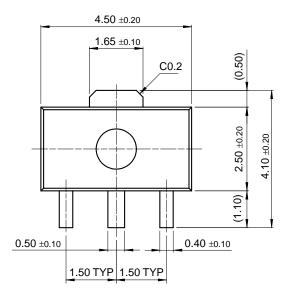
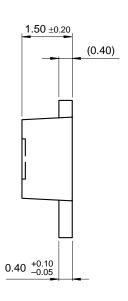


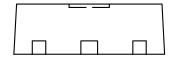
Figure 7. Current Gain Bandwidth Product

Package Dimensions

SOT-89







Dimensions in Millimeters

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