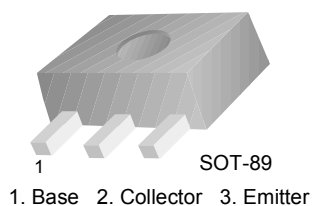


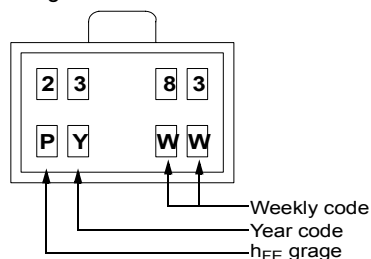
FJC2383

NPN Epitaxial Silicon Transistor

Color TV Audio Output & Color TV Vertical Deflection Output



Marking



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	A
I _B	Base Current	0.5	A
P _C	Collector Power Dissipation	500	mW
T _J	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.	Typ.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} = 150V, I _E = 0			1	μA
I _{EBO}	Emitter Cut-off Current	V _{EB} = 6V, I _C = 0			1	μA
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	O	Y
h_{FE}	100 ~ 200	160 ~ 320

Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
2383	FJC2383	SOT-89	13"	--	4,000

Typical Performance Characteristics

Figure 1. Static Characteristic

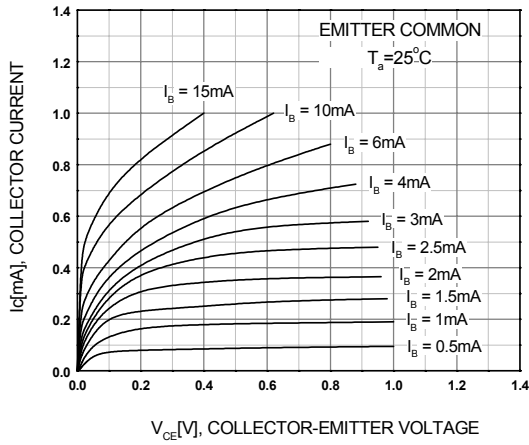


Figure 2. DC Current Gain

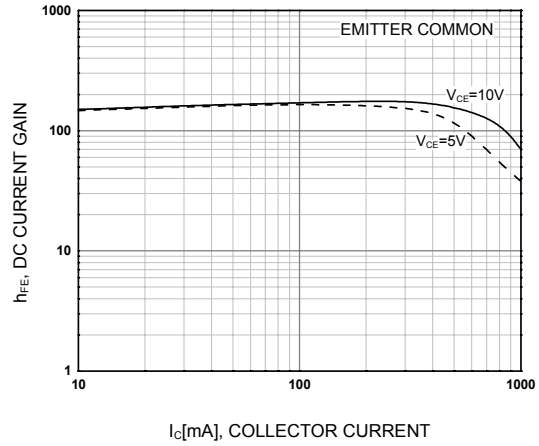


Figure 3. DC Current Gain

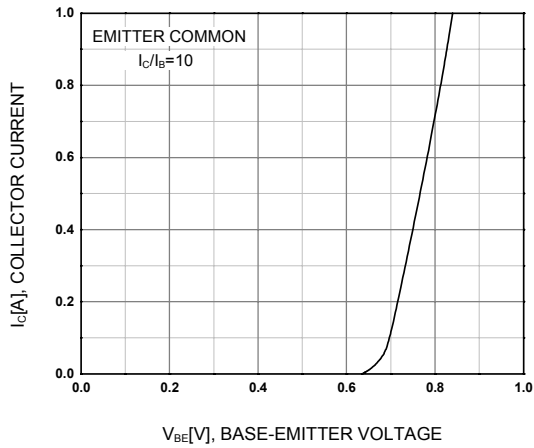


Figure 4. Collector-Emitter Saturation Voltage

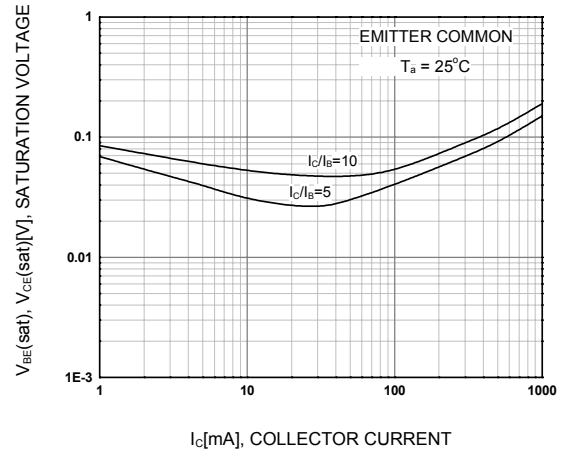


Figure 5. Base-Emitter On Voltage

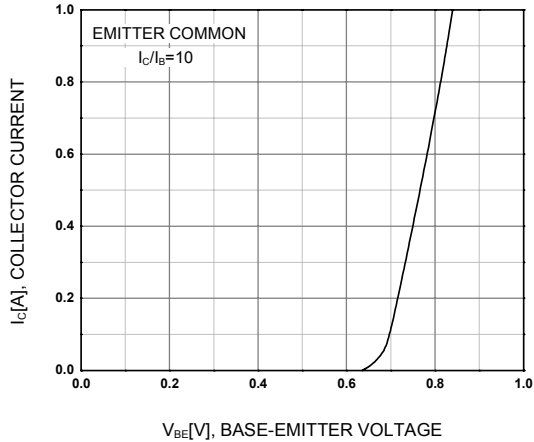
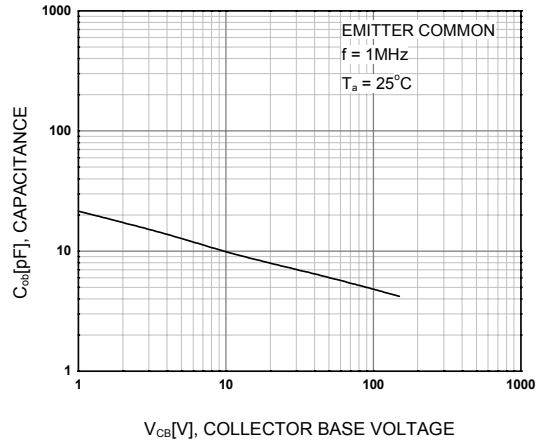
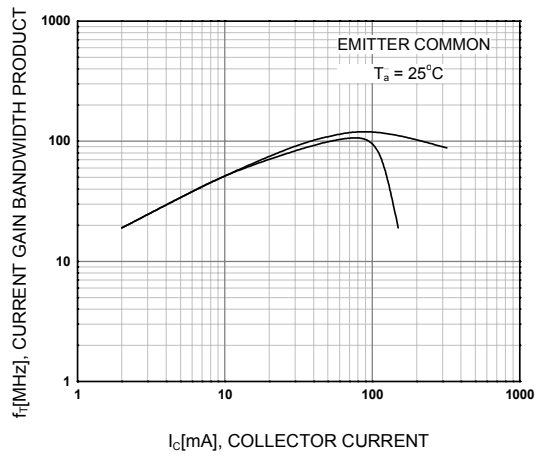


Figure 6. Collectro Output Capacitance



Typical Performance Characteristics (Continued)**Figure 7. Current Gain Bandwidth Product**

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