

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	200	V
Collector to Emitter Voltage	V_{CEO}	200	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	100	mA
Collector Current – Continuous(Pulse)	I_{CP}	200	mA
Collector Power Dissipation	P_C	1.3	W
Collector Power Dissipation	$P_C(T_C=25^\circ\text{C})$	5.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=10\mu\text{A}$ $I_E=0$	200			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0\text{mA}$ $I_B=0$	200			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=10\mu\text{A}$ $I_C=0$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=150\text{V}$ $I_E=0$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=4.0\text{V}$ $I_C=0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=10\text{V}$ $I_C=10\text{mA}$	40		320	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20\text{mA}$ $I_B=2.0\text{mA}$			0.6	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=20\text{mA}$ $I_B=2.0\text{mA}$			1.0	V
Transition Frequency	f_T	$V_{CE}=30\text{V}$ $I_C=10\text{mA}$		150		MHz
Collector output capacitance	C_{ob}	$V_{CB}=30\text{V}$ $f=1.0\text{MHz}$		2.6		pF
Reverse Transfer Capacitance						

/ Electrical Characteristic Curve



2SC3788

/ Marking Instructions



BR

C3788

D

h_{FE}

Note:

BR: Company Code

C3788: Product Type.

D h_{FE} Classifications Symbol

****: Lot No. Code, code change with Lot No.

