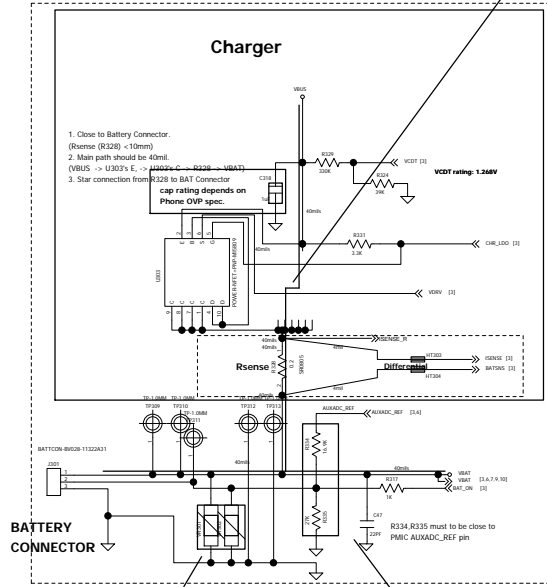


Before you select BJT, please take power dissipation into consideration.  
Refer to MT6323 design notice



1. Close to Battery Connector.  
(Rsense (R328) <10mΩ)  
2. Main path should be 40mΩ  
(VBUS -> U303's E, -> R328 -> VBAT)  
3. Star connection from R328 to BAT Connector  
cap rating depends on Phone QVFS spec.

Based on your system level design, if better ESD performance is needed on your system, please refer to ESD performance enhance proposal

If battery NTC is 10kΩ, R334+16.8K, R335=27K  
If battery NTC is 470kΩ, R334=01.8K, R335=100K  
Refer to MT6323 HW design notice

Regulator	Output Voltage(V)	Output current(mA)	Input Decoupling	Output Decoupling	Notes
WPROG	0.7-1.4	2800	>10uF	L=0.68uH, C=10uF*4	Total output cap>40uF
VVSYS	2.2	1200	>10uF	L=0.68uH, C=10uF*2	Total output cap>20uF
VPA	0.5-3.4	600	>4.7uF	L=2.2uH, C=2.2uF+2.2uF	Output cap range 4uF ~20uF
LDO	Output Voltage(V)	Output current(mA)	Input Decoupling	Output Decoupling	Notes
VM	1.24 /1.39/1.54/1.84	700	10uF	-20%~+20%	Far-end bypass cap
VNF18	1.825	200	1uF	-20%~+200%	Far-end bypass cap
VIO18	1.8	300	4.7uF	-20%~+200%	Far-end bypass cap
VCN18	1.8	120	1uF	-20%~+20%	Far-end bypass cap
VCAMD	1.2 /1.3/1.5/1.8	150	1uF	-20%~+20%	Far-end bypass cap
VCAM_IO	1.8	100	1uF	-20%~+20%	Far-end bypass cap
VGP3	1.2 /1.3/1.5/1.8	200	1uF	-20%~+20%	Far-end bypass cap
VA	2.8	150	1uF	-20%~+20%	Far-end bypass cap
VTXO	2.8	40	1uF	-20%~+20%	Far-end bypass cap
VCN28	2.8	30	1uF	-20%~+20%	Far-end bypass cap
VCAMA	2.8	150	3.2uF	-20%~+20%	1uF near-end 2.2uF Far-end bypass cap
VCN33	3.3/3.4/3.5/3.6	240(MT6323) 350(MT6322)	4.7uF	-20%~+20%	Far-end bypass cap
VIQ28	2.8	200	2.2uF	-20%~+200%	Far-end bypass cap
VUSB	3.3	20	1uF	-20%~+20%	Far-end bypass cap
VMC	1.8 /3.3	100	1uF	-20%~+20%	Far-end bypass cap
VMCH	3.0 /3.3	400	2.2uF	-20%~+20%	Far-end bypass cap
VEMC_3V3	3.0 /3.3	400	4.7uF	-20%~+20%	Far-end bypass cap
VCAM_AF	1.2/1.3/1.5/1.8 2.8/3.0/3.3	7/2.0 100	1uF	-20%~+20%	Far-end bypass cap
VSIM1	1.8 /3.0	50	1uF	-20%~+20%	Far-end bypass cap
VSIM2	1.8 /3.0	50	1uF	-20%~+20%	Far-end bypass cap
VGP1	1.2/1.3/1.5/1.8/2.0	100	1uF	-20%~+20%	Far-end bypass cap
VGP2	2.8 /3.0/3.3 1.2/1.3/1.5/1.8/2.0 2.5 /2.8/3.0	100	1uF	-20%~+20%	Far-end bypass cap
VIBK	1.2 /1.3/1.5/1.8/2.0 2.8/3.0/3.3	100	1uF	-20%~+20%	Far-end bypass cap
VDIG18	1.8	20	1uF	-20%~+20%	Far-end bypass cap
VRTC	2.8	2	0.1uF to 1000uF	-20%~+20%	Far-end bypass cap

