

FMRTL619

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A$	100	210		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=5mA^*$	50	70		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A$	5	8.5		V
Collector-base cut-off current	I_{CBO}	$V_{CB}=40V$			10	nA
Emitter-base current	I_{EBO}	$V_{EB}=4V$			10	nA
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=10mA^*$ $I_C=250mA, I_B=10mA^*$ $I_C=500mA, I_B=25mA^*$ $I_C=1.25A, I_B=125mA^*$		24 60 100 195	45 100 180 330	mV
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=1.25A, I_B=125mA^*$		1020	1100	mV
Base-emitter ON voltage	$V_{BE(on)}$	$I_C=1.25A, V_{CE}=2V^*$		895	1000	mV
DC current gain	h_{FE}	$I_C=10mA, V_{CE}=5V$ $I_C=200mA, V_{CE}=5V^*$ $I_C=500mA, V_{CE}=5V^*$ $I_C=1A, V_{CE}=5V^*$ $I_C=2A, V_{CE}=5V^*$	200 300 200 100 30	400 450 400 230 50		
Current-gain-bandwidth product	f_T	$I_C=50mA, V_{CE}=10V, f=100MHz$		180		MHz
Output capacitance	C_{obo}	$V_{CB}=10V, f=1MHz$		6	8	pF
Turn-on time	$t_{(on)}$	$I_C=1A, V_{CC}=10V$		182		ns
Turn-off time	$t_{(off)}$	$I_{B1}=-I_{B2}=10mA$		379		ns

* Pulse test: $t_p \leq 300 \mu s$; $d \leq 0.02$.

■ Marking

Marking	L69
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