

U.S.A.

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Quality Semi-Conductors

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MRF492, MRF492A

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS					<i>.</i>
Collector-Emitter Breakdown Voltage (Ic = 100 mAdc, Ig = 0)	V(BR)CEO	18	-	-	Vdc
Collector-Emitter Breakdown Voltage {IC = 50 mAdc, VBE = 0}	V(BR)CES	36		-	Vdic
Emitter-Base Breakdown Voltage I _E = 10 mAdc, I _C = 0)	V(BR)EBO	4.0	-	-	Vdic
Collector Cutoff Current (V _{CE} = 13.6 Vdc, V _{BE} = 0)	ICES	-	-	20	mAde
ON CHARACTERISTICS				-	
DC Current Gain (Ic = 5.0 Adc, V _{CE} = 5.0 Vdc)	hFE	10		150	-
DYNAMIC CHARACTERISTICS	•			•	•
Output Capacitance (V _{CB} = 15 Vdc, I _E = 0, f = 1.0 MHz)	Cob		275	450	pF
FUNCTIONAL TESTS					
Common-Emitter Amplifier Power Gain (V _{CC} = 12.5 Vdc, P _{OUT} = 70 W, f = 50 MHz)	GPE	11	13	-	dB
Collector Efficiency (V _{CC} = 12.5 Vdc, P _{out} = 70 W, f = 50 MHz)	7	50	-	-	%

FIGURE 1 - 50 MHz TEST CIRCUIT





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