

FEATURES

SECOND SOURCE FOR SILICONIX VCR11N

VOLTAGE CONTROLLED RESISTANCE 100 to 200Ω

ABSOLUTE MAXIMUM RATINGS¹

@ 25 °C (unless otherwise stated)

Maximum Temperatures

Storage Temperature -65 to +150 °C

Operating Junction Temperature -55 to +135 °C

Maximum Power Dissipation

Continuous Power Dissipation 300mW

Maximum Current

Forward Gate Current 10mA

Maximum Voltages

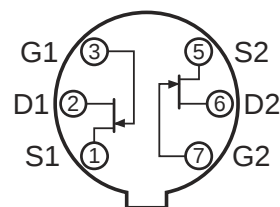
Gate to Drain Voltage 25V

Gate to Source Voltage 25V

VCR11N

N-CHANNEL JFET VOLTAGE CONTROLLED RESISTOR

TO-71
BOTTOM VIEW



*Contact the factory for surface mount package options and pin outs.

ELECTRICAL CHARACTERISTICS @ 25 °C (unless otherwise stated)

SYMBOL	CHARACTERISTIC	MIN	TYP	MAX	UNITS	CONDITIONS
BV _{GSS}	Gate to Source Breakdown Voltage	-25			V	I _G = -1μA, V _{DS} = 0V
V _{GS(off)}	Gate to Source Cutoff Voltage	-8		-12		I _D = 1μA, V _{DS} = 10V
I _{GSS}	Gate Reverse Current			-0.2	nA	V _{GS} = -15V, V _{DS} = 0V
r _{ds(on)}	Dynamic Drain to Source On Resistance	100		200	Ω	V _{GS} = 0V, I _D = 0A, f = 1kHz
r _{DS(min)}	Static Drain to Source On Resistance Ratio	0.95		1		V _{DS} = 100mV, r _{DS} = 200Ω ²
r _{DS(max)}		0.95		1		V _{GS1} = V _{GS2} , r _{DS} = 2kΩ ²
C _{dgo}	Drain to Gate Capacitance			8	pF	V _{GD} = -10V, I _S = 0A, f = 1MHz
C _{sgo}	Source to Gate Capacitance			8	pF	V _{GS} = -10V, I _D = 0A, f = 1MHz

1. Absolute maximum ratings are limiting values above which serviceability may be impaired.

2. V_{GS1} + Control Voltage necessary to force r_{DS} to 200Ω or 2kΩ.

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