

N-Channel Switch

(continued)

Electrical Characteristics	TA = 25°C unless otherwise noted
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	Symbol	Parameter	Test Conditions	Min	Max	Units
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OFF CHARACTERISTICS

V _{(BR)GSS}	Gate-Source Breakdown Voltage	$I_G = -10 \ \mu A, \ V_{DS} = 0$ - 25		- 25		V
I _{GSS}	Gate Reverse Current	$V_{GS} = -15 V, V_{DS} = 0$ $V_{GS} = -15 V, V_{DS} = 0, T_A = 100^{\circ}C$			- 3.0 - 200	nA nA
I _{D(off)}	Gate-Source Cutoff Voltage	$V_{DS} = -5.0 \text{ V}, V_{GS} = -10 \text{ V}$			3.0	nA
V _{GS(off)}	Gate-Source Cutoff Voltage		105 106 107	- 4.5 - 2.0 - 0.5	- 10 - 6.0 - 4.5	V V V

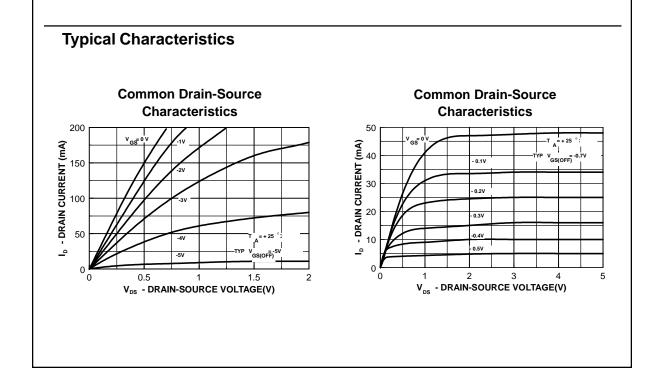
ON CHARACTERISTICS

I _{DSS}	Zero-Gate Voltage Drain Current*	$V_{DS} = 15 \text{ V}, I_{GS} = 0$	105 106 107	500 200 100		mA mA mA
r _{DS(on)}	Drain-Source On Resistance	$V_{DS} \leq 0.1 \text{ V}, \text{ V}_{GS} = 0$	105 106 107		3.0 6.0 8.0	Ω Ω Ω

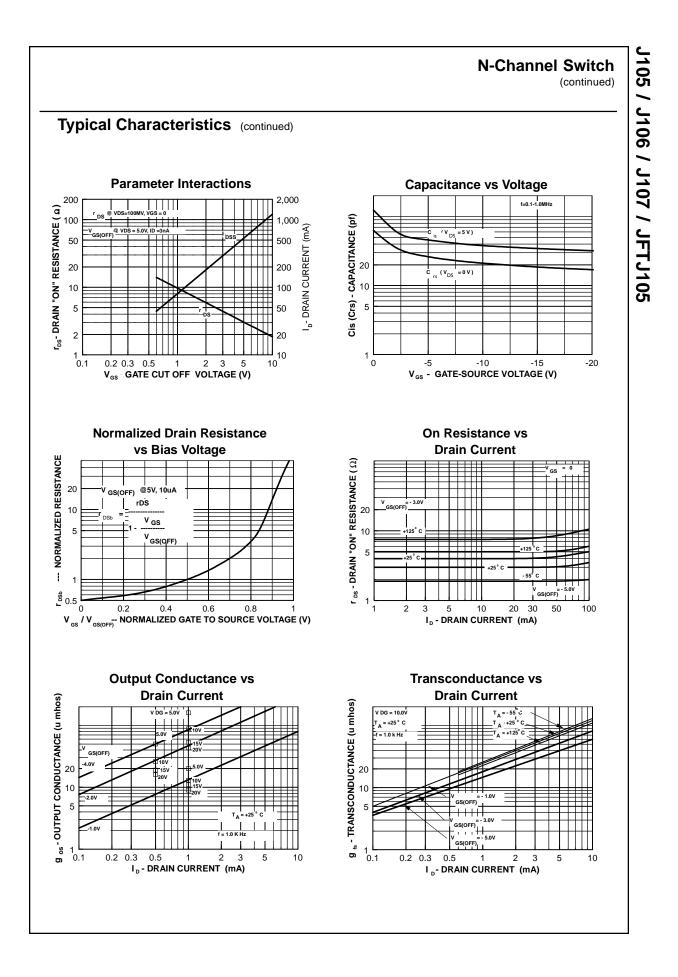
SMALL SIGNAL CHARACTERISTICS

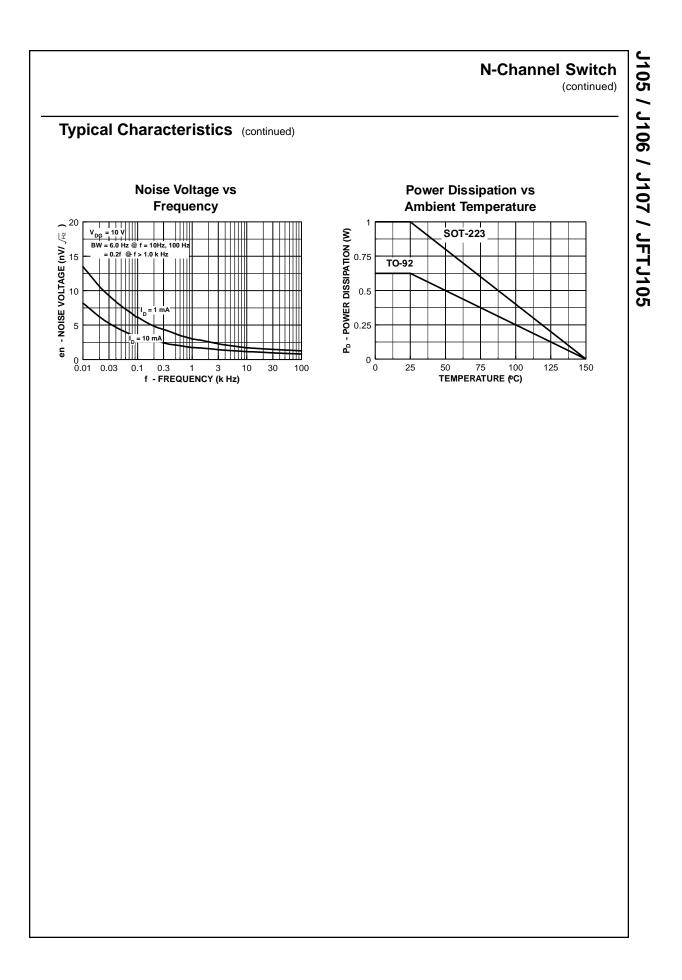
C _{dg(on)} C _{sg(on)}	Drain Gate & Source Gate On Capacitance	$V_{DS} = 0, V_{GS} = 10 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	160	pF
C _{dg(off)}	Drain-Gate Off Capacitance	$V_{DS} = 0, V_{GS} = 10 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	35	pF
C _{sg(off)}	Source-Gate Off Capacitance	$V_{DS} = 0, V_{GS} = 10 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	35	pF

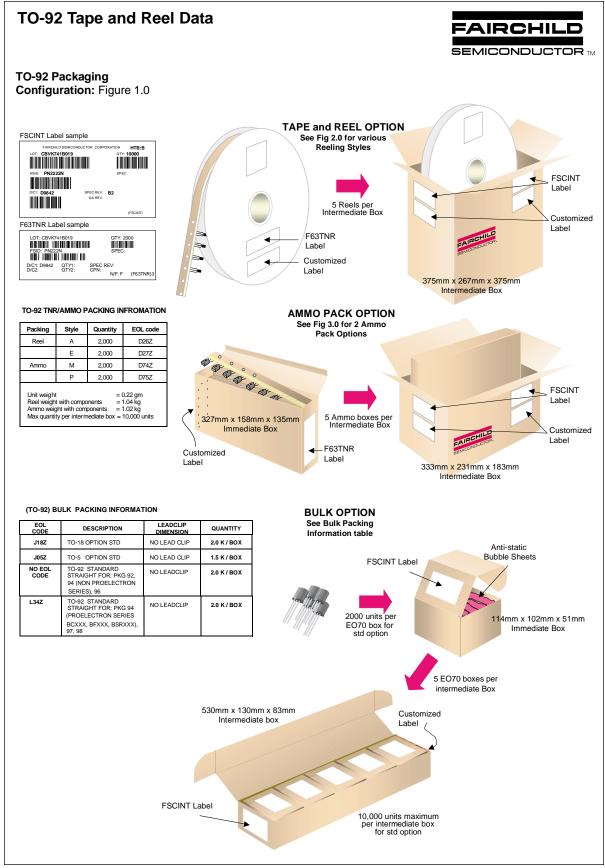
*Pulse Test: Pulse Width \leq 300 μ s, Duty Cycle \leq 2.0%



J105 / J106 / J107 / JFTJ105

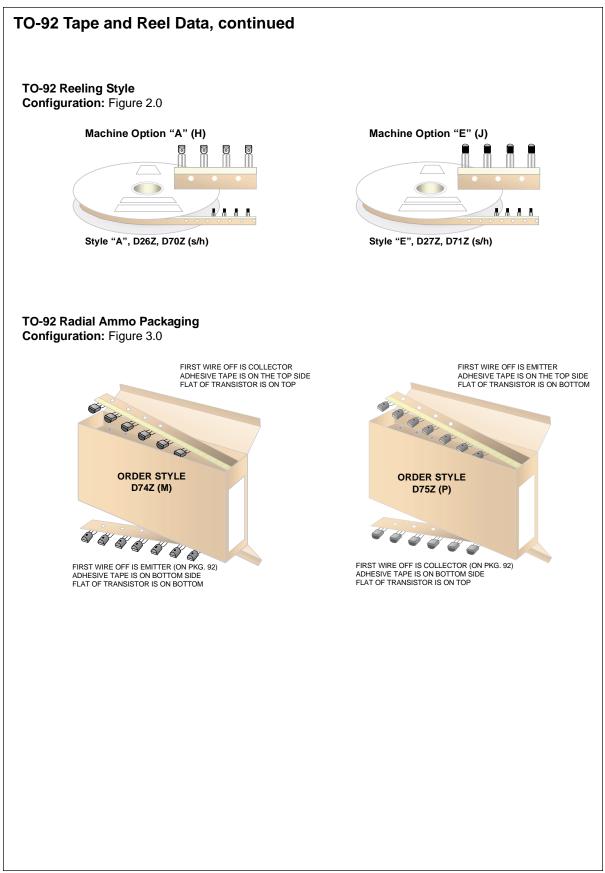




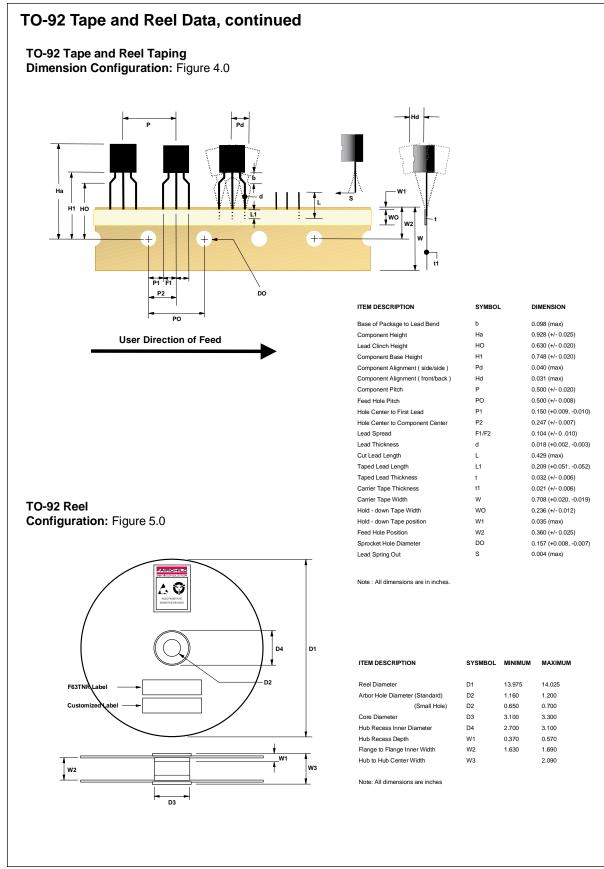


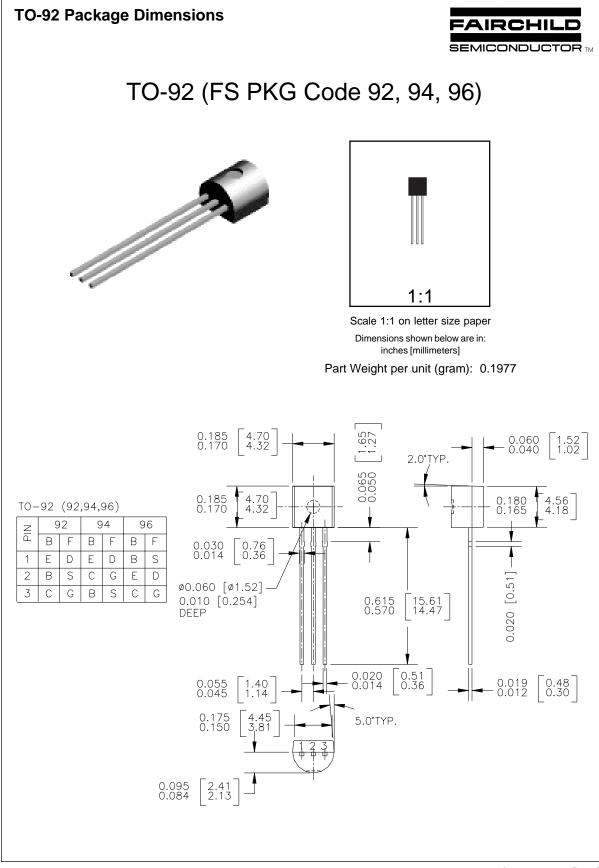
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March 2001, Rev. B1



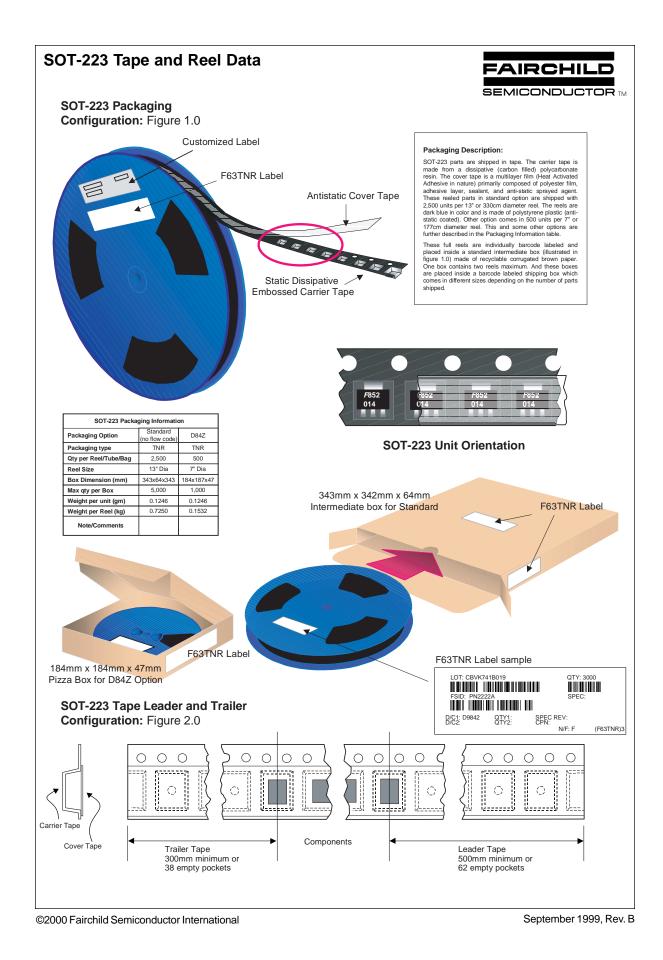
September 1999, Rev. B



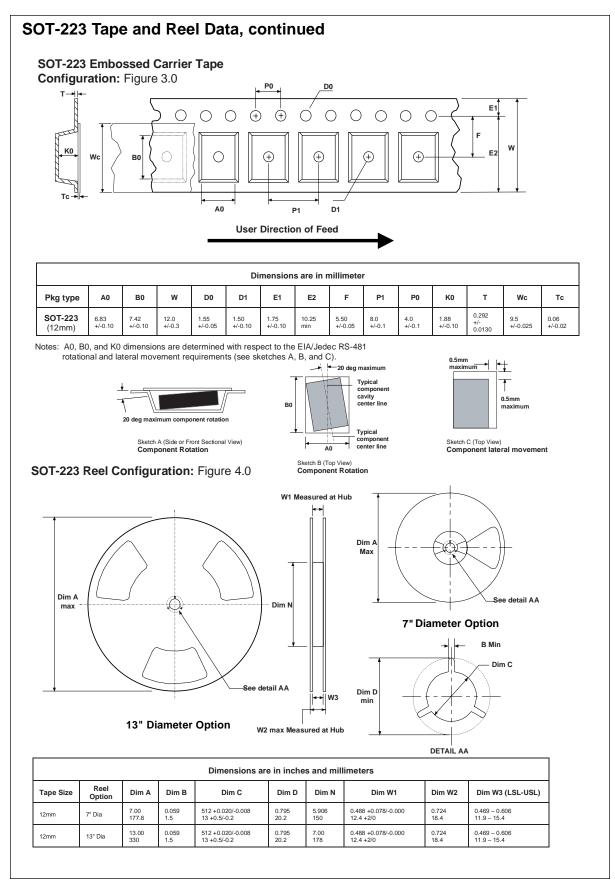


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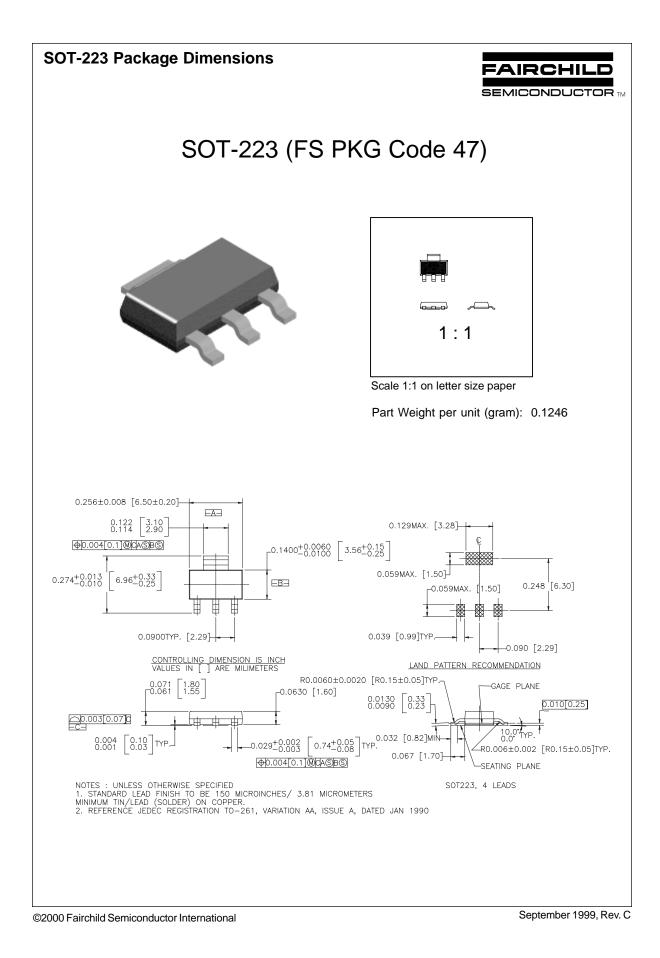
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