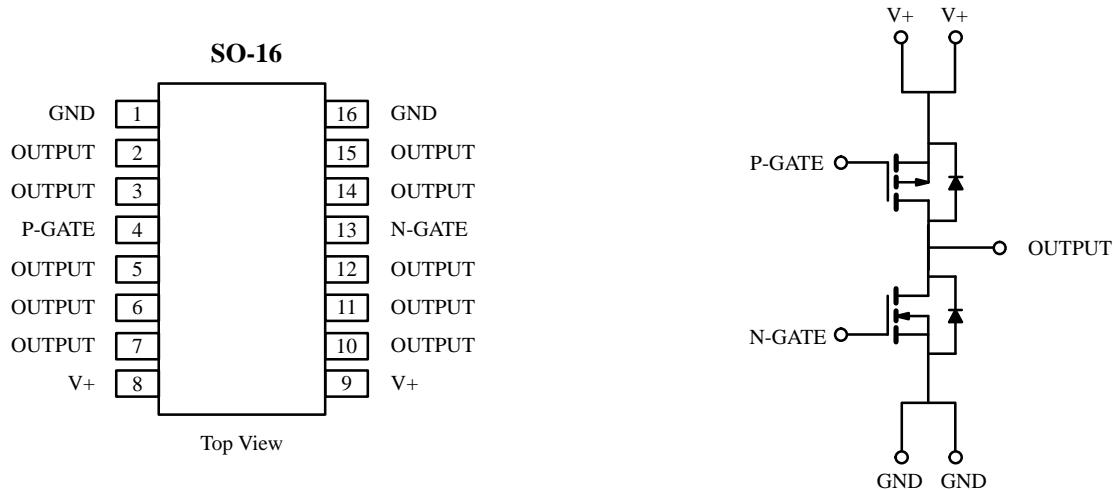


Complementary MOSFET Half-Bridge

Product Summary

	V _{DS} (V)	r _{DS(on)} (Ω)	I _D (A)
N- or P-Channel	50	0.3 @ V _{GS} = 10 V	± 2.0
		1.0 @ V _{GS} = 5 V	± 1.2

Alternate Solution: one Si9948DY and one Si9945DY



Absolute Maximum Ratings (T_A = 25°C Unless Otherwise Noted)

Parameter	Symbol	N- or P-Channel	Unit
Drain-Source Voltage	V _{DS}	50	V
Gate-Source Voltage	V _{GS}	± 20	
Continuous Drain Current (T _J = 150°C) ^a	I _D	± 2.0	A
		± 1.7	
Pulsed Drain Current	I _{DM}	± 8	
Continuous Source Current (Diode Conduction) ^a	I _S	2.8	
Maximum Power Dissipation ^a	P _D	2.3	W
		1.5	
Operating Junction and Storage Temperature Range	T _J , T _{stg}	-55 to 150	°C

Thermal Resistance Ratings

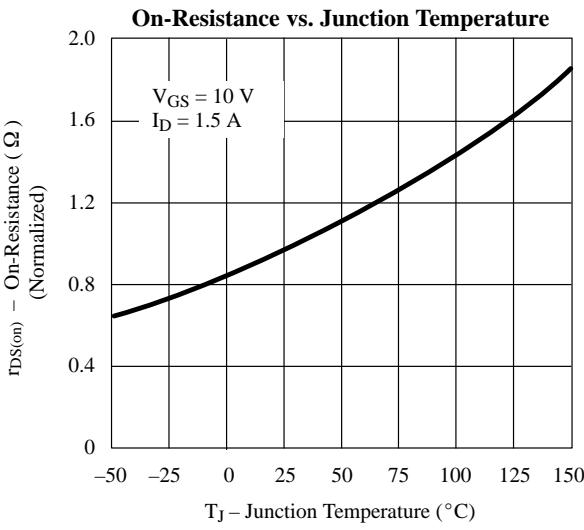
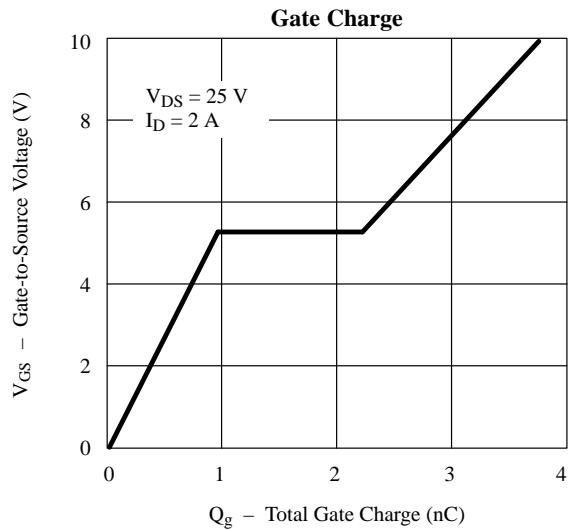
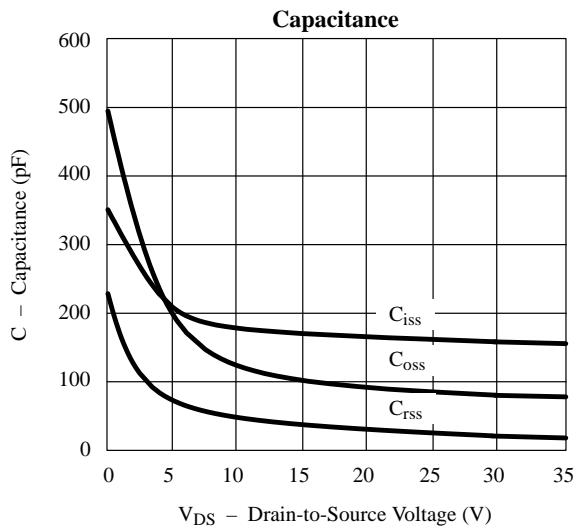
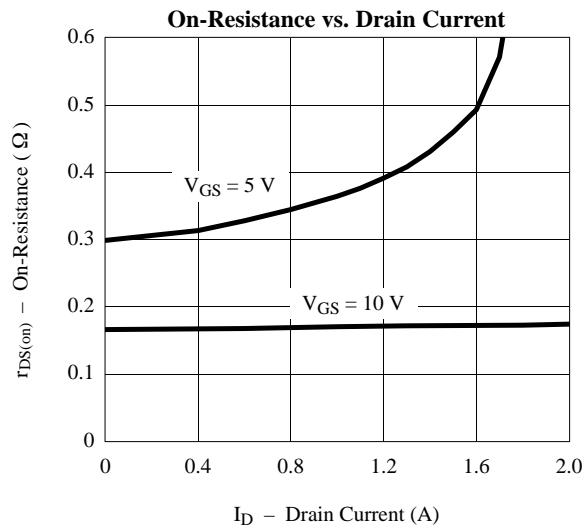
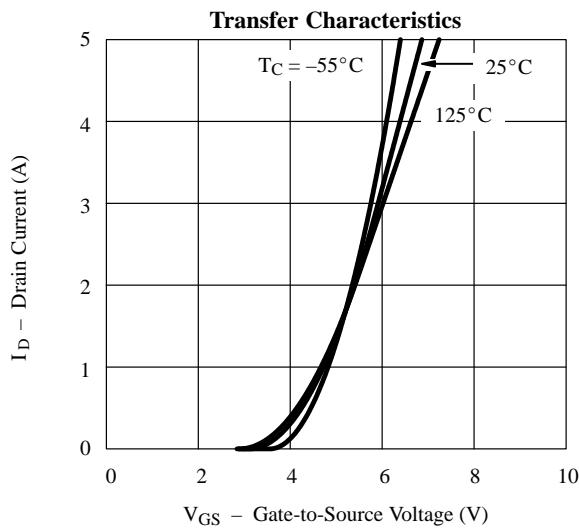
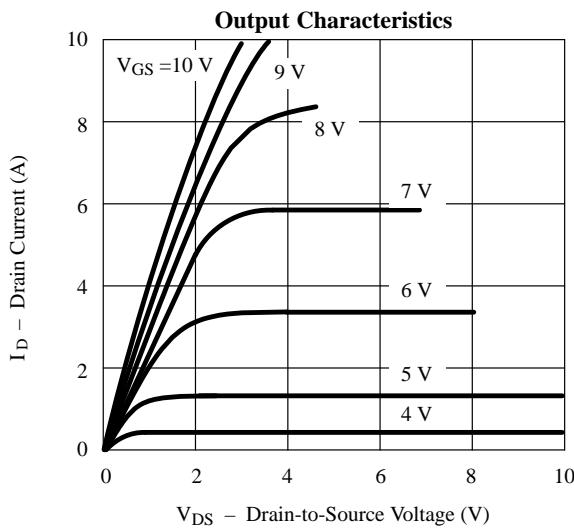
Parameter	Symbol	N- or P-Channel	Unit
Maximum Junction-to-Ambient ^a	R _{thJA}	55	°C/W

Notes

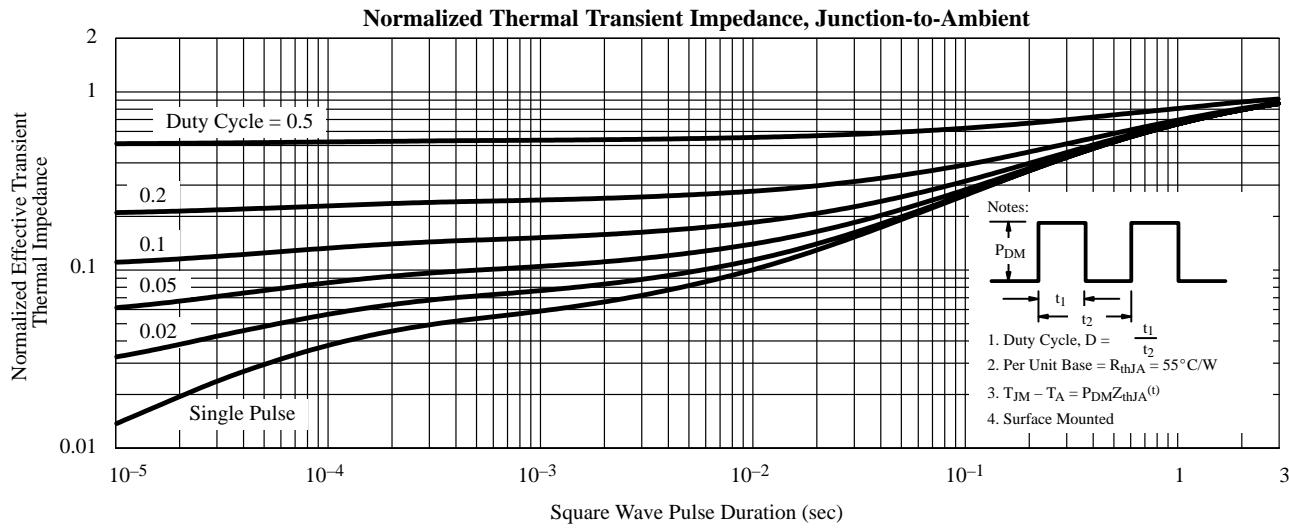
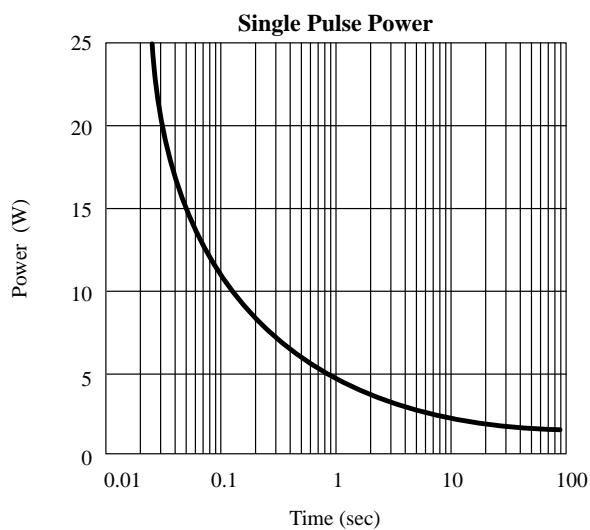
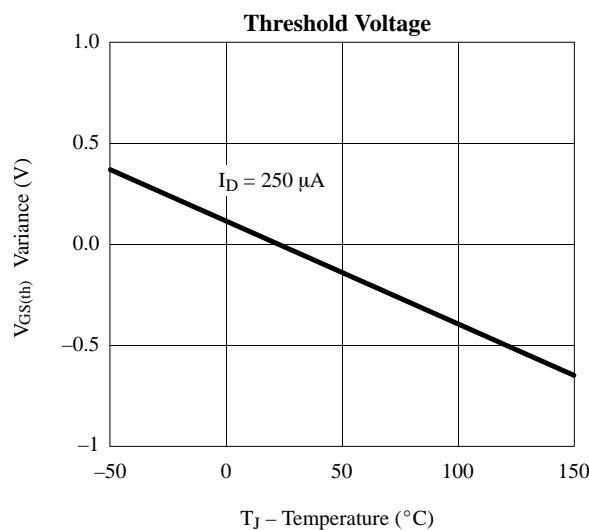
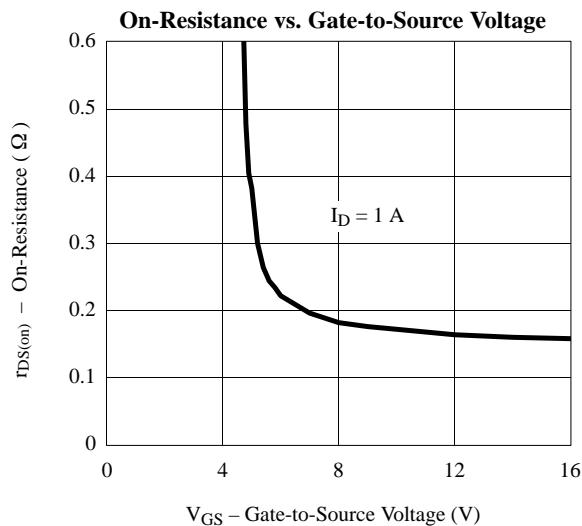
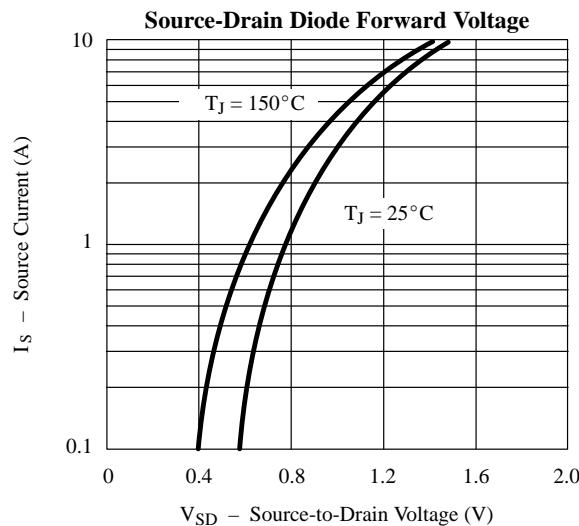
a. Surface Mounted on FR4 Board, t ≤ 10 sec.

Subsequent updates to this data sheet may be obtained via facsimile by calling Siliconix FaxBack, 1-408-970-5600. Please request FaxBack document #1218.

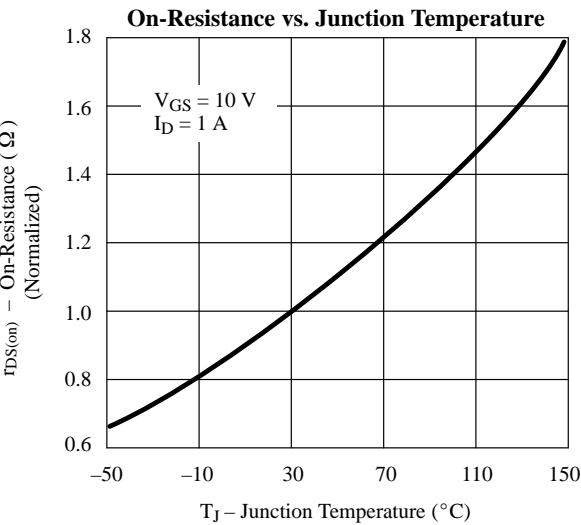
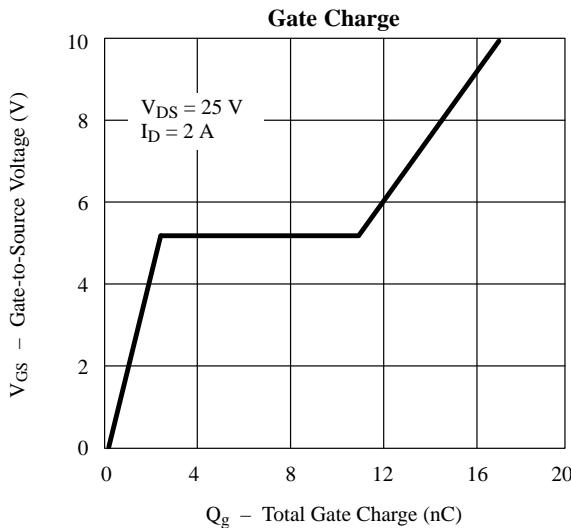
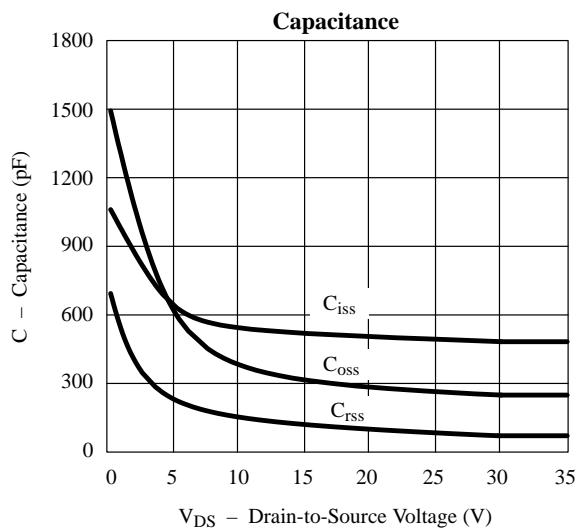
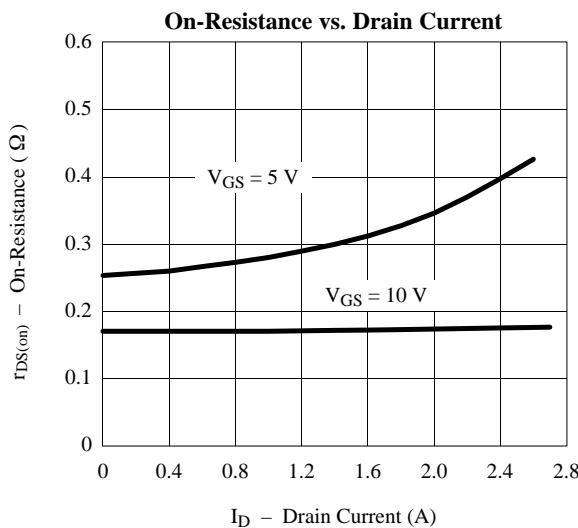
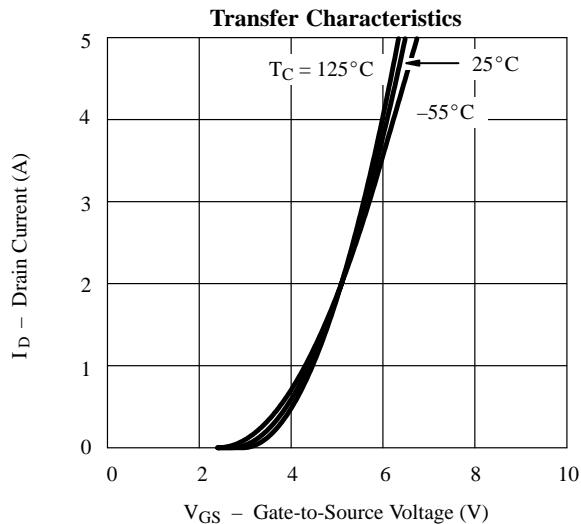
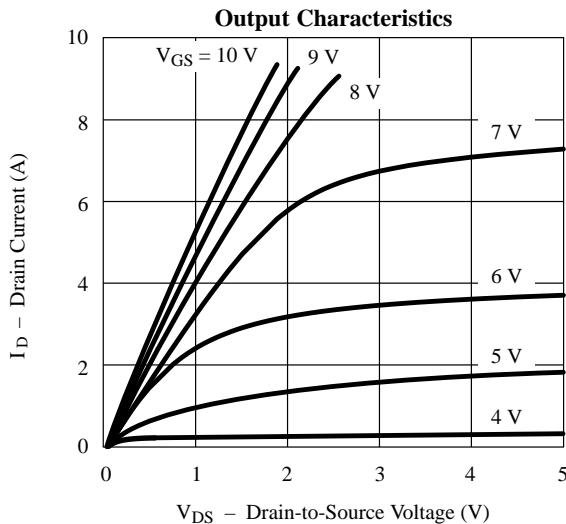
Typical Characteristics (25°C Unless Otherwise Noted) N-Channel



Typical Characteristics (25°C Unless Otherwise Noted) N-Channel



Typical Characteristics (25°C Unless Otherwise Noted) P-Channel



Typical Characteristics (25°C Unless Otherwise Noted) P-Channel

