## Si3441DV

# Vishay Siliconix

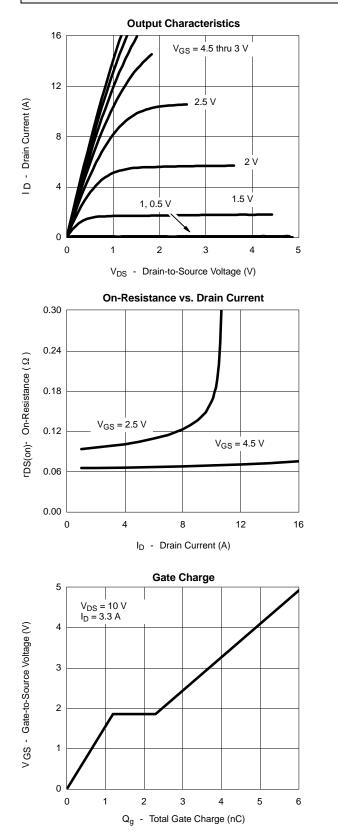


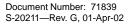
SPECIFICATIONS (T <sub>J</sub> = $25^{\circ}$ C UNLESS OTHERWISE NOTED)						
Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Static				•		
Gate Threshold Voltage	V <sub>GS(th)</sub>	$V_{DS} = V_{GS}, I_D = -250 \ \mu A$	-0.45		-0.95	V
Gate-Body Leakage	I <sub>GSS</sub>	$V_{DS}$ = 0 V, $V_{GS}$ = ±8 V			±100	nA
Zero Gate Voltage Drain Current	IDSS	$V_{DS}$ = -20 V, $V_{GS}$ = 0 V			-1	μΑ
		$V_{DS}$ = -20 V, $V_{GS}$ = 0 V, $T_J$ = 70°C			-5	
On-State Drain Current <sup>a</sup>	I <sub>D(on)</sub>	$V_{DS}$ = -5 V, $V_{GS}$ = -4.5 V	- 10			A
		$V_{DS}$ = -5 V, $V_{GS}$ = -2.5 V	-4			
Drain-Source On-State Resistance <sup>a</sup>	r <sub>DS(on)</sub>	$V_{GS}$ = -4.5 V, I <sub>D</sub> = -3.3 A		0.067	0.10	Ω
		$V_{GS} = -2.5 \text{ V}, \text{ I}_{D} = -2.9 \text{ A}$		0.100	0.135	
Forward Transconductance <sup>a</sup>	9fs	$V_{DS}$ = -10 V, I <sub>D</sub> = -3.3 A		8		S
Diode Forward Voltage <sup>a</sup>	V <sub>SD</sub>	$I_{S} = -1.6 \text{ A}, \text{ V}_{GS} = 0 \text{ V}$		0.8	-1.2	V
Dynamic <sup>b</sup>						
Total Gate Charge	Qg	V <sub>DS</sub> = -10 V, V <sub>GS</sub> = -4.5 V, I <sub>D</sub> = -3.3 A		5.5	14	nC
Gate-Source Charge	Q <sub>gs</sub>			1.2		
Gate-Drain Charge	Q <sub>gd</sub>			1.1		
Turn-On Delay Time	t <sub>d(on)</sub>	$V_{DD}$ = -10 V, R <sub>L</sub> = 10 Ω I <sub>D</sub> ≅ -1.6 A, V <sub>GEN</sub> = -4.5 V, R <sub>G</sub> = 6 Ω		15	50	ns
Rise Time	tr			40	60	
Turn-Off Delay Time	t <sub>d(off)</sub>			40	80	
Fall Time	t <sub>f</sub>			50	70	
Source-Drain Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> = -1.6 A, di/dt = 100 A/µs		50	80	1

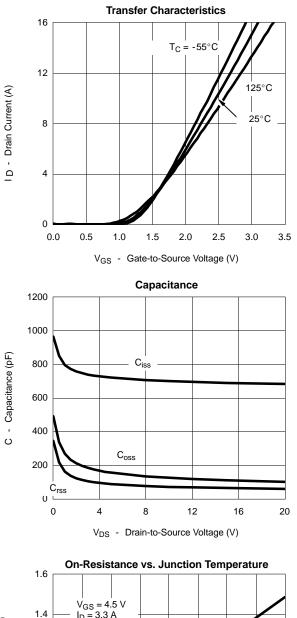


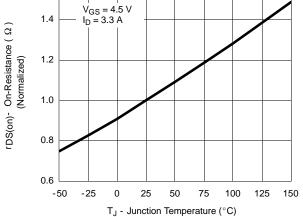
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#### TYPICAL CHARACTERISTICS (25°C UNLESS NOTED)







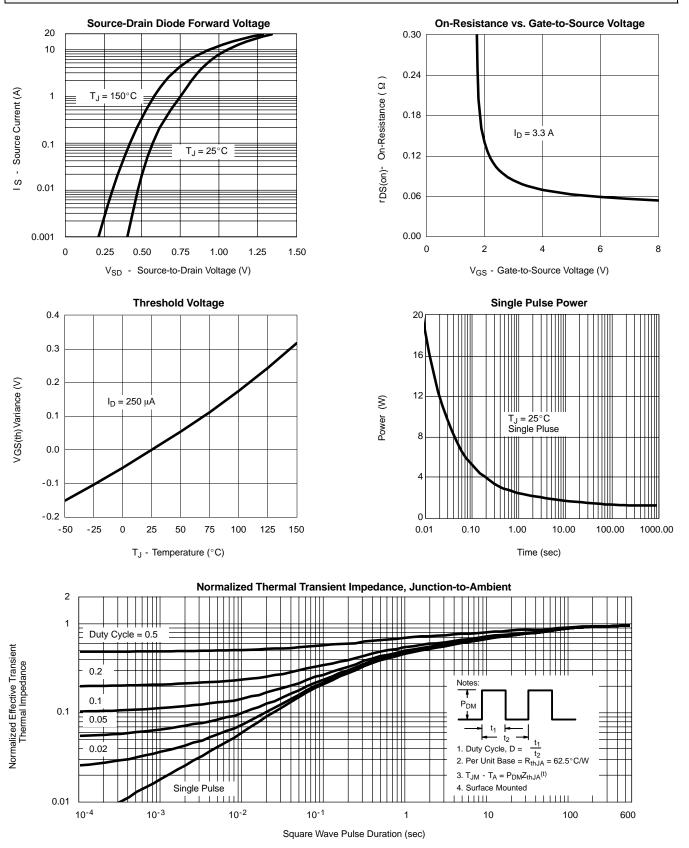


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#### TYPICAL CHARACTERISTICS (25°C UNLESS NOTED)





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