

RoHS

COMPLIANT HALOGEN

FREE

Available

N- and P- Channel 20 V (D-S) MOSFET

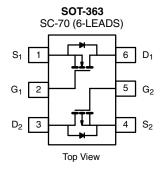
PRODUCT SUMMARY							
	V _{DS} (V)	R_{DS(on)} (Ω)	I _D (A)				
N-Channel	20	0.090 at V _{GS} = 4.5 V	3.28				
		0.110 at V _{GS} = 2.5 V	2.13				
		0.130 at V _{GS} = 1.8 V	1.50				
P-Channel	- 20	0.155 at V _{GS} = - 4.5 V	- 2.80				
		0.190 at V _{GS} = - 2.5 V	- 1.81				
		0.220 at V _{GS} = - 1.8 V	- 1.15				

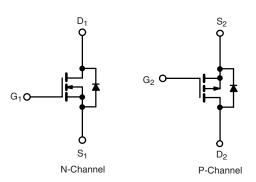
FEATURES

- Halogen-free According to IEC 61249-2-21
 Definition
- TrenchFET[®] Power MOSFETs: 1.8 V Rated
- Thermally Enhanced SC-70 Package
- Fast Switching
- Compliant to RoHS Directive 2002/95/EC

APPLICATIONS

Load Switch for Portable Devices



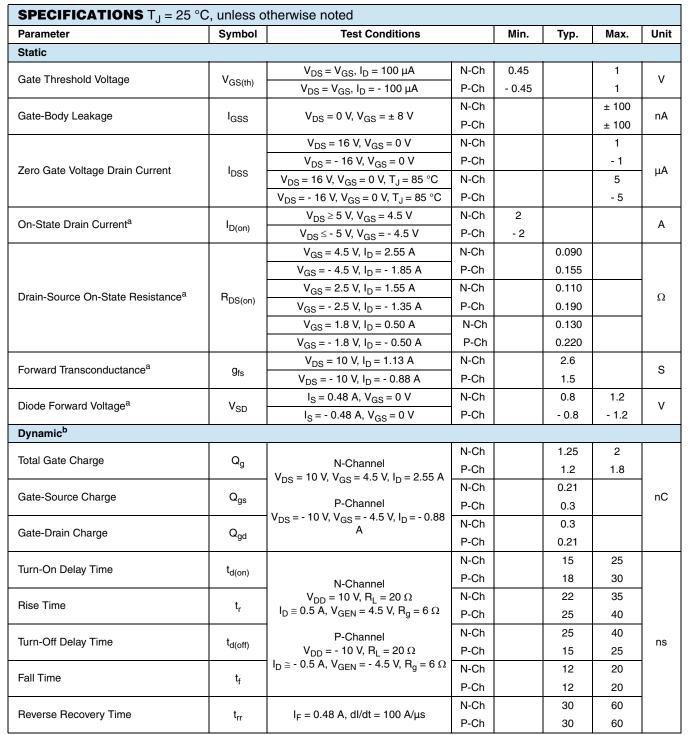


ABSOLUTE MAXIMUM RATINGS $T_A = 25 \text{ °C}$, unless otherwise noted									
Parameter		Symbol	N-Channel		P-Channel				
			5 s	Steady State	5 s	Steady State	Unit		
Drain-Source Voltage		V _{DS}	20		- 20		v		
Gate-Source Voltage		V _{GS}	± 20		± 20		v		
	T _A = 25 °C	- I _D	3.28	3.03	- 2.80	- 2.58	А		
Continuous Drain Current $(T_J = 150 \ ^{\circ}C)^a$	T _A = 85 °C		2.12	1.81	- 1.72	- 1.53			
Pulsed Drain Current		I _{DM}		9.5 - 8.5		8.5	A		
Continuous Source Current (Diode Conduction) ^a		ا _S	2.61	2.48	- 1.61	-1.48			
Mauina Davier Diasia atiana	T _A = 25 °C	P _D	1.24	1.17	1.10	0.97	w		
Maximum Power Dissipation ^a	T _A = 85 °C		0.88	0.75	0.66	0.5			
Operating Junction and Storage Temperature Range		T _J , T _{stg}	- 55 to 150				°C		

THERMAL RESISTANCE RATINGS									
Parameter		Symbol	Typical	Maximum	Unit				
Maximum Junction-to-Ambient ^a	$t \le 5 s$	R _{thJA}	130	170	°C/W				
Maximum Junction-to-Amblent*	Steady State		170	220					
Maximum Junction-to-Foot (Drain)	Steady State	R _{thJF}	80	100					

Notes:

a. Surface mounted on 1" x 1" FR4 board.



Notes:

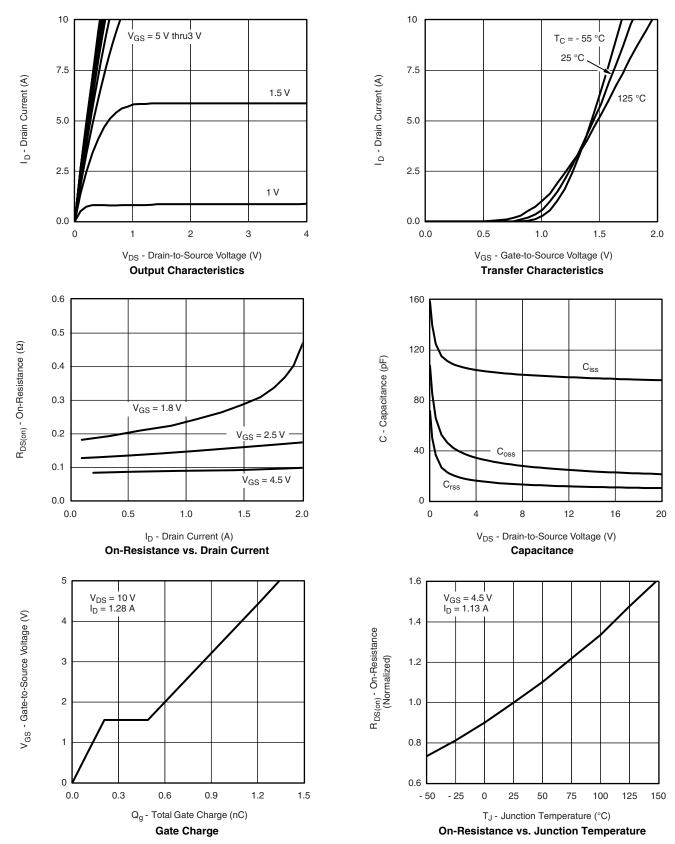
a. Pulse test; pulse width \leq 300 µs, duty cycle \leq 2 %.

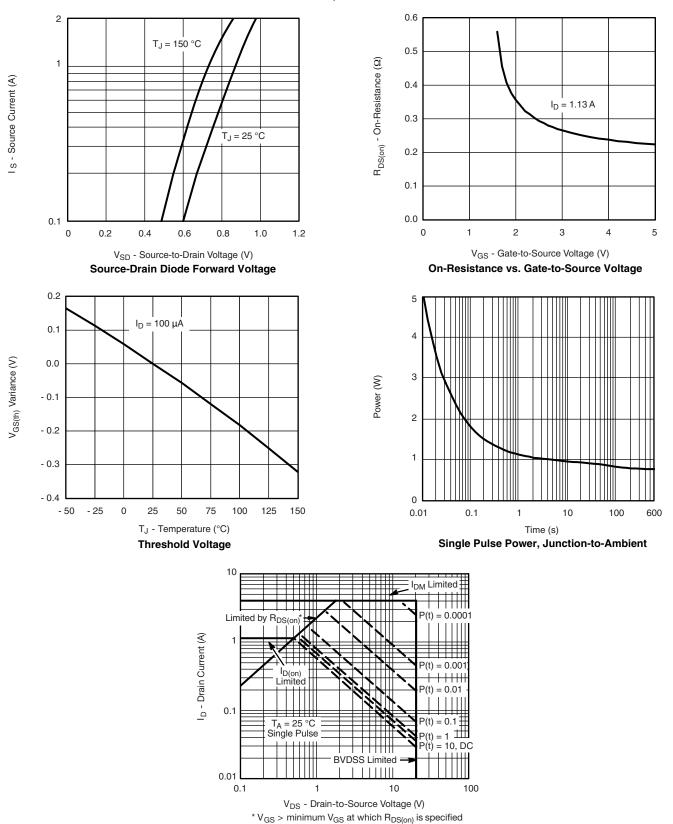
b. Guaranteed by design, not subject to production testing.

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.



N-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted

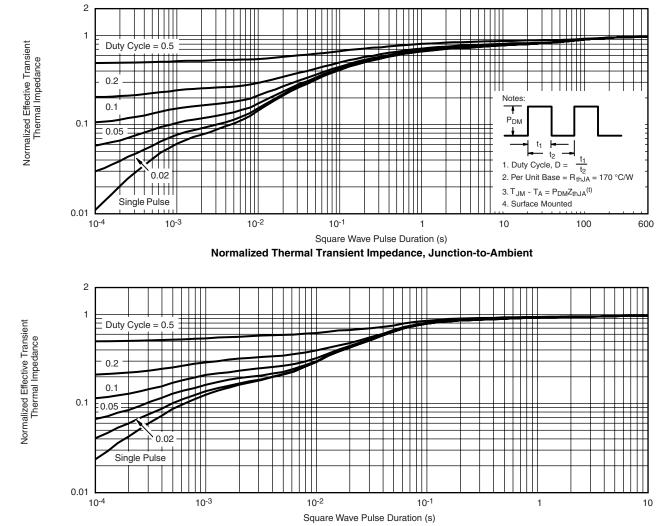




Safe Operating Area, Junction-to-Ambient

N-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted





N-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted

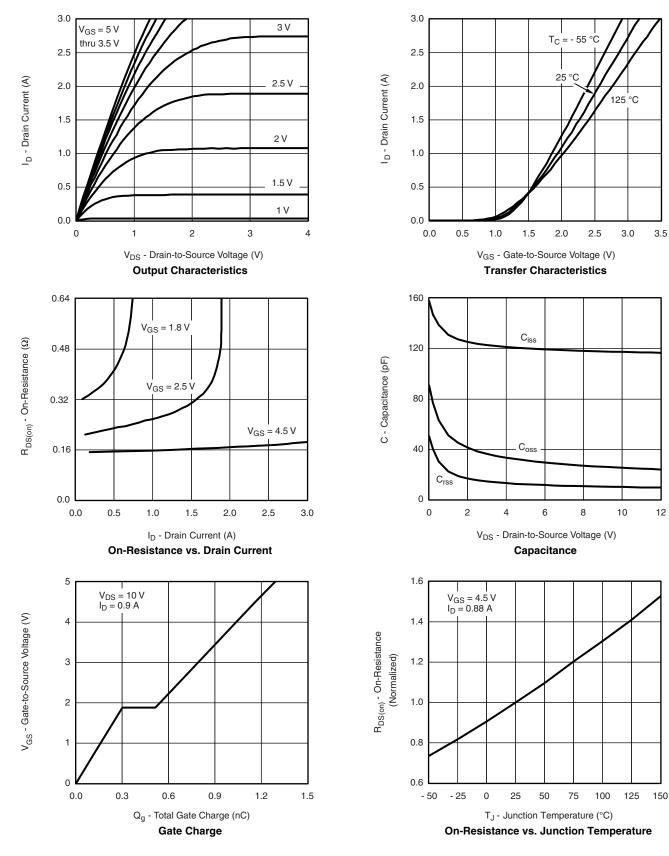
Normalized Thermal Transient Impedance, Junction-to-Foot

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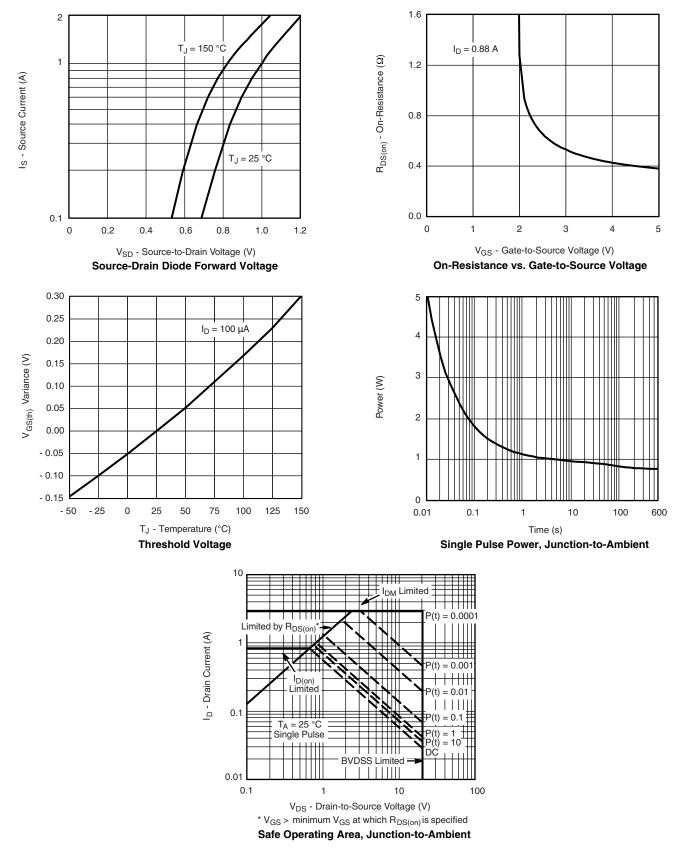


P-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted

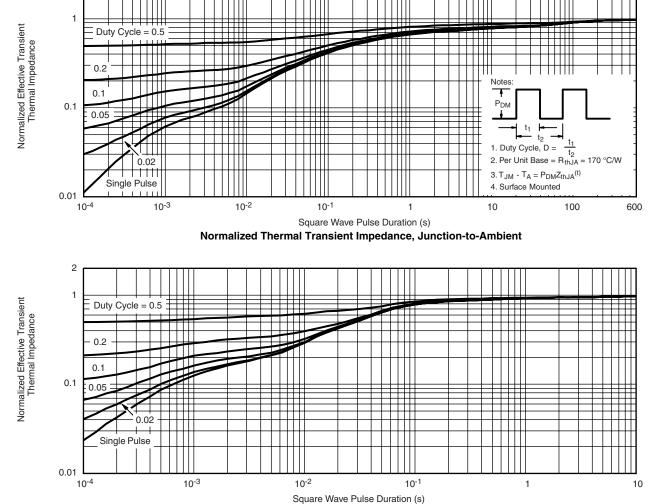




P-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted



2



P-CHANNEL TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted

Normalized Thermal Transient Impedance, Junction-to-Foot

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