

RoHS

COMPLIANT HALOGEN

Available

P-Channel 30-V (D-S) MOSFET

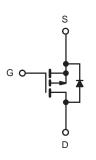
PRODUCT SUMMARY						
V _{DS} (V)	R _{DS(on)} (Ω)	I _D (A) ^d	Q _g (Typ.)			
- 30	0.050 at V _{GS} = - 10 V	- 7.6	13 nC			
- 30	0.056 at V _{GS} = - 4.5 V	- 6.0	13110			

FEATURES

- Halogen-free According to IEC 61249-2-21
 Definition
- TrenchFET[®] Power MOSFET
- 100 % R_g Tested

APPLICATIONS

- Load Switch
- Battery Switch



P-Channel MOSFET

ABSOLUTE MAXIMUM RATINGS	Γ _A = 25 °C, unless othe	erwise noted		
Parameter	Symbol	Limit	Unit	
Drain-Source Voltage	V _{DS}	- 30	V	
Gate-Source Voltage	V _{GS}	± 20	v	
	T _C = 25 °C		- 7.6	
Continuous Drain Current (T. -150 °C)	T _C = 70 °C		- 5.8	
Continuous Drain Current ($T_J = 150 \ ^{\circ}C$)	T _A = 25 °C	I _D	- 6.0 ^{a, b}	
	T _A = 70 °C		- 5.2 ^{a, b}	A
Pulsed Drain Current	I _{DM}	- 35		
Continuous Course Drain Diada Current	T _C = 25 °C		- 3.5	
Continuous Source-Drain Diode Current	T _A = 25 °C	I _S	- 2.1 ^{a, b}	
	T _C = 25 °C		6.5	
Maulaura Davia Diasia stian	T _C = 70 °C	р	3.5	
Maximum Power Dissipation	T _A = 25 °C	P _D	2.5 ^{a, b}	W
	T _A = 70 °C	1 –	1.6 ^{a, b}	
Operating Junction and Storage Temperature Rang	T _J , T _{stg}	- 55 to 150	°C	

THERMAL RESISTANCE RATINGS							
Parameter	Symbol	Typical	Maximum	Unit			
Maximum Junction-to-Ambient ^{a, c}	t ≤ 10 s	R _{thJA}	40	50	°C/W		
Maximum Junction-to-Foot	Steady State	R _{thJF}	24	30	0/10		

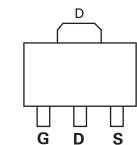
Notes:

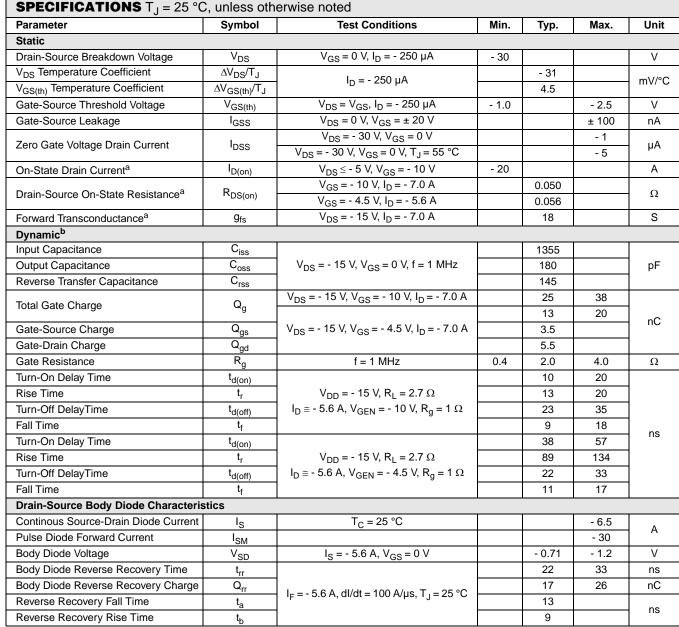
a. Surface mounted on 1" x 1" FR4 board.

b. t = 10 s.

c. Maximum under Steady State conditions is 95 °C/W.

d. Package limited.





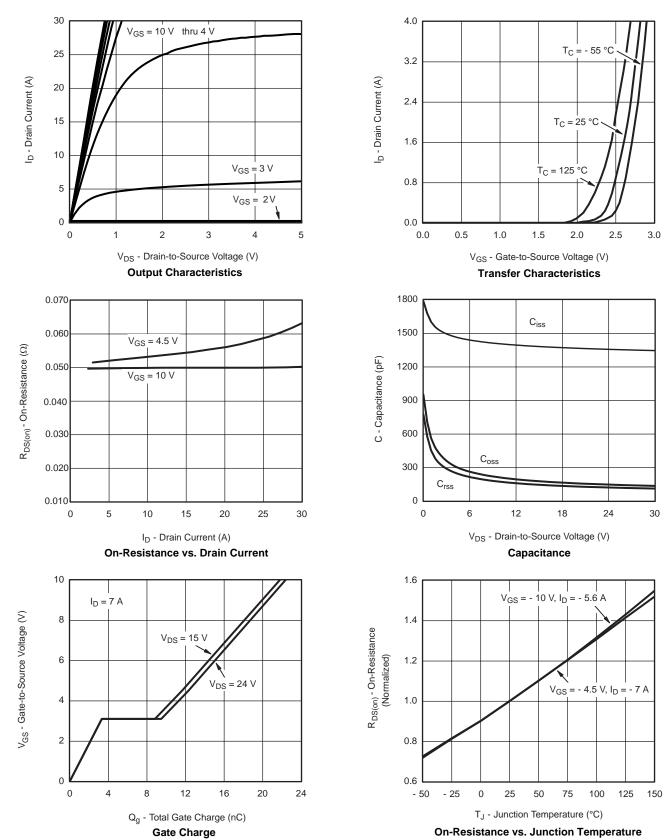
Notes:

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

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

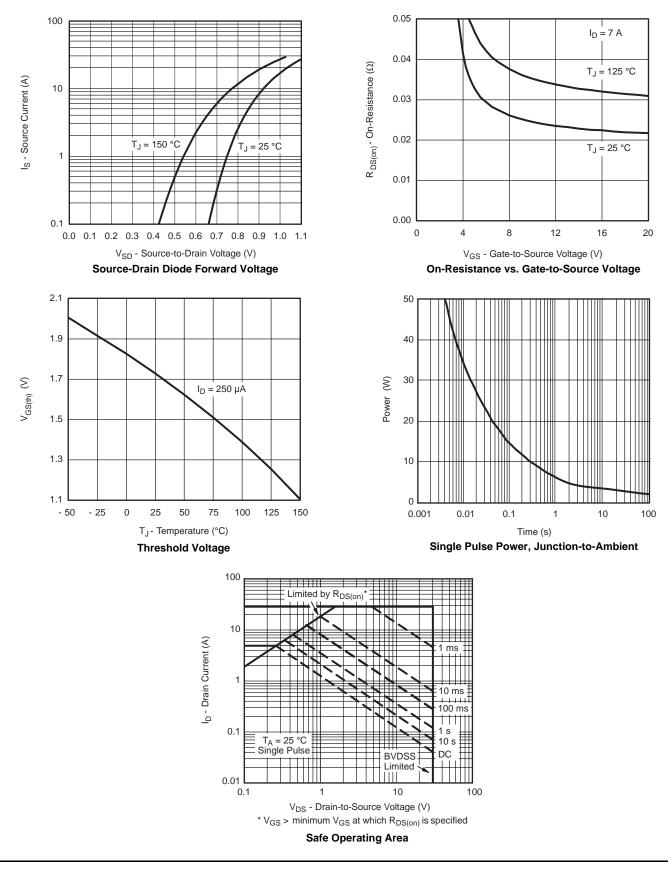
Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure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





TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted

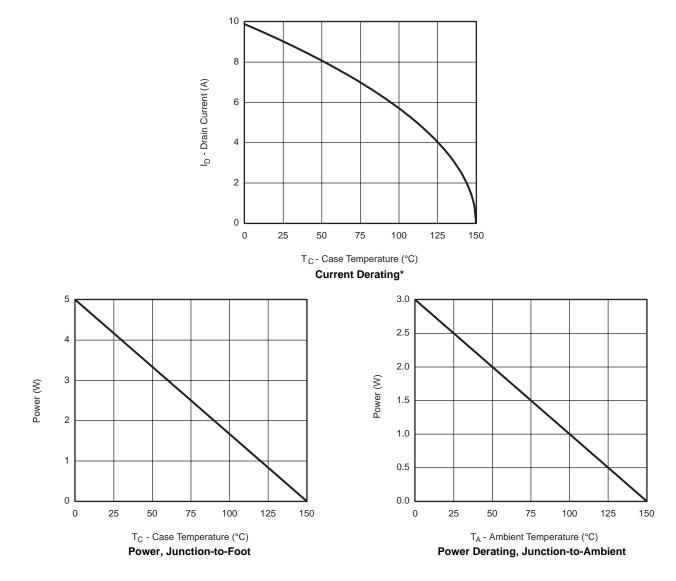




TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted



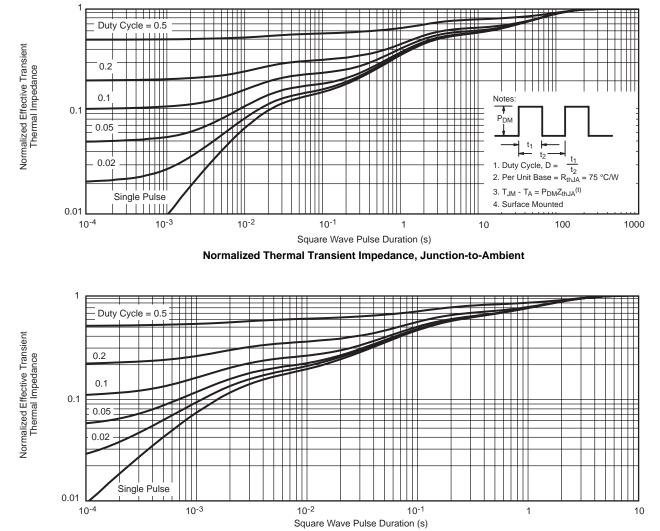
TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted



* The power dissipation P_D is based on $T_{J(max)}$ = 150 °C, using junction-to-case thermal resistance, and is more useful in settling the upper dissipation limit for cases where additional heatsinking is used. It is used to determine the current rating, when this rating falls below the package limit.





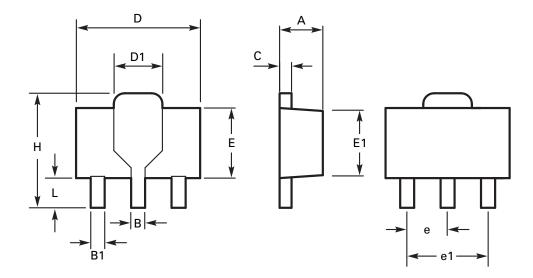


Normalized Thermal Transient Impedance, Junction-to-Foot

Downloaded From Oneyac.com



Package outline - SOT89



DIM	Millimeters		Inches		DIM	Millimeters		Inches	
	Min	Max	Min	Max		Min	Max	Min	Мах
А	1.40	1.60	0.550	0.630	E	2.29	2.60	0.090	0.102
В	0.44	0.56	0.017	0.022	E1	2.13	2.29	0.084	0.090
B1	0.36	0.48	0.014	0.019	е	1.50 BSC		0.059 BSC	
С	0.35	0.44	0.014	0.017	e1	3.00 BSC		0.118 BSC	
D	4.40	4.60	0.173	0.181	Н	3.94	4.25	0.155	0.167
D1	1.62	1.83	0.064	0.072	L	0.89	1.20	0.035	0.047

Note: Controlling dimensions are in millimeters. Approximate dimensions are provided in inches



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