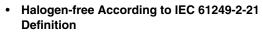


P-Channel 70 V (D-S) MOSFET

PRODUCT SUMMARY					
V _{DS} (V)	$R_{DS(on)}(\Omega)$	V _{GS(th)} (V)	I _D (mA)		
- 70	3.6 at V _{GS} = - 10 V	- 1 to - 3	-400		

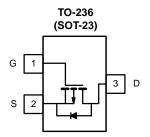
FEATURES

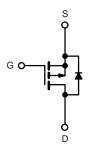




RoHS

- TrenchFET® Power MOSFET
- High-Side Switching
- Low On-Resistance: 3 Ω
- Low Threshold: 2 V (typ.)
- Fast Swtiching Speed: 20 ns (typ.)
- Low Input Capacitance: 20 pF (typ.)
- Compliant to RoHS Directive 2002/95/EC





P-Channel MOSFET

ABSOLUTE MAXIMUM RATINGS T _A = 25 °C, unless otherwise noted					
Parameter		Symbol	Limit	Unit	
Drain-Source Voltage		V_{DS}	- 70		
Gate-Source Voltage			± 20	V	
Ocalian and David Ocalia	T _A = 25 °C	I _D	- 400	mA	
Continuous Drain Current ^a	T _A = 100 °C		- 320		
Pulsed Drain Current ^b		I _{DM}	-1200		
Davies Disable disable	T _A = 25 °C	P_{D}	420	mW	
Power Dissipation ^a	T _A = 100 °C	' D	200	IIIVV	
Maximum Junction-to-Ambient ^a	·	R _{thJA}	350	°C/W	
Operating Junction and Storage Temperature Range		T _{J,} T _{stg}	- 55 to 150	°C	

Notes:

- a. Surface mounted on FR4 board.
- b. Pulse width limited by maximum junction temperature.



			Limits				
Parameter	Symbol	Test Conditions	Min.	Typ. ^a	Max.	Unit	
Static							
Drain-Source Breakdown Voltage	V _{DS}	$V_{GS} = 0 \text{ V}, I_{D} = -10 \mu\text{A}$	- 70			V	
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS} = V_{GS}, I_{D} = -250 \mu A$	- 1		- 3]	
		$V_{DS} = 0 \text{ V}, V_{GS} = \pm 20 \text{ V}$		± 10		μΑ	
Cata Bady Loakaga		$V_{DS} = 0 \text{ V}, V_{GS} = \pm 10 \text{ V}$			± 200		
Gate-Body Leakage	I _{GSS}	$V_{DS} = 0 \text{ V}, V_{GS} = \pm 10 \text{ V}, T_{J} = 85 ^{\circ}\text{C}$			± 500	nA	
		$V_{DS} = 0 \text{ V}, V_{GS} = \pm 5 \text{ V}$			± 100		
Zava Cata Valtaga Dvain Curvent		V _{DS} = -70 V, V _{GS} = 0 V			- 25		
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} = - 70 V, V _{GS} = 0 V, T _J = 85 °C			- 250		
On Chata Dunin Command	,	V _{GS} = - 10 V, V _{DS} = - 4.5 V - 50				mA	
On-State Drain Current ^a	I _{D(on)}	V _{GS} = - 10 V, V _{DS} = - 10 V	- 600				
	R _{DS(on)}	V _{GS} = - 4.5 V, I _D = - 25 mA	4.0				
Drain-Source On-Resistance ^a		V _{GS} = - 10 V, I _D = - 100 mA		3.6		Ω	
		V _{GS} = - 10 V, I _D = - 100 mA, T _J =125 °C			9		
Forward Transconductance ^a	9 _{fs}	V _{DS} = - 10 V, I _D = - 100 mA	80			mS	
Diode Forward Voltage	V _{SD}	I _S = - 100 mA, V _{GS} = 0 V			- 1.4	V	
Dynamic							
Total Gate Charge	Qg			1.9		nC	
Gate-Source Charge	Q _{gs}	$V_{DS} = -30 \text{ V}, V_{GS} = -15 \text{ V}$ $I_{D} \cong -100 \text{ mA}$		1.1			
Gate-Drain Charge	Q _{gd}	10		0.8			
Input Capacitance	C _{iss}			22		pF	
Output Capacitance	C _{oss}	$V_{DS} = -25 \text{ V}, V_{GS} = 0 \text{ V}$ f = 1 MHz		10			
Reverse Transfer Capacitance	C _{rss}	1 - 1 11112		5			
Switching ^b	•		•				
Turn-On Time	t _{d(on)}	$V_{DD} = -25 \text{ V}, R_{L} = 150 \Omega$		20		ns	
Turn-Off Time	t _{d(off)}	$I_D \cong$ - 200 mA, $V_{GEN} = -10 \text{ V}$, $R_g = 10 \Omega$		35			

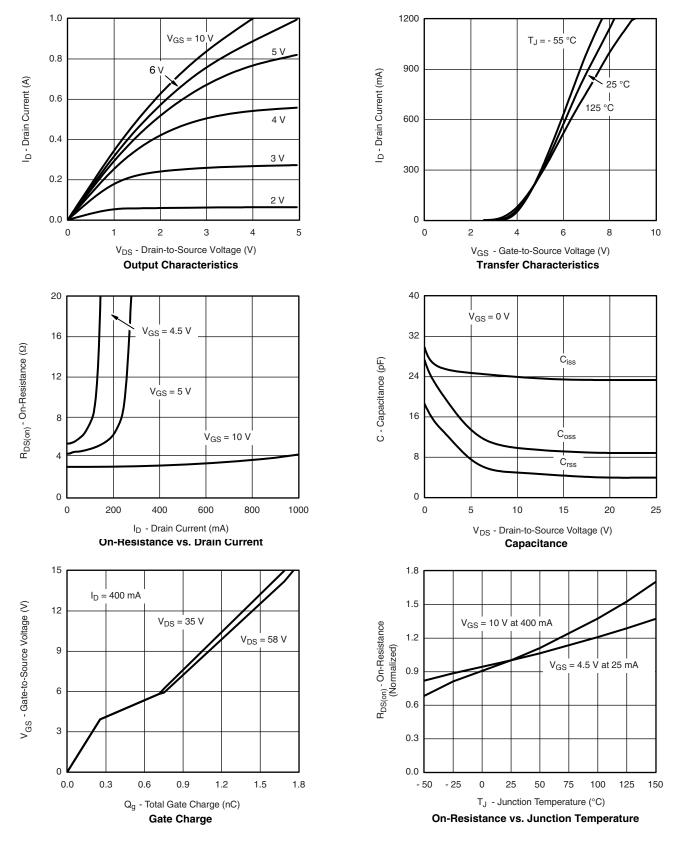
Notes:

- a. Pulse test: PW \leq 300 μs duty cycle \leq 2 %.
- b. Switching time is essentially independent of operating temperature.

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.

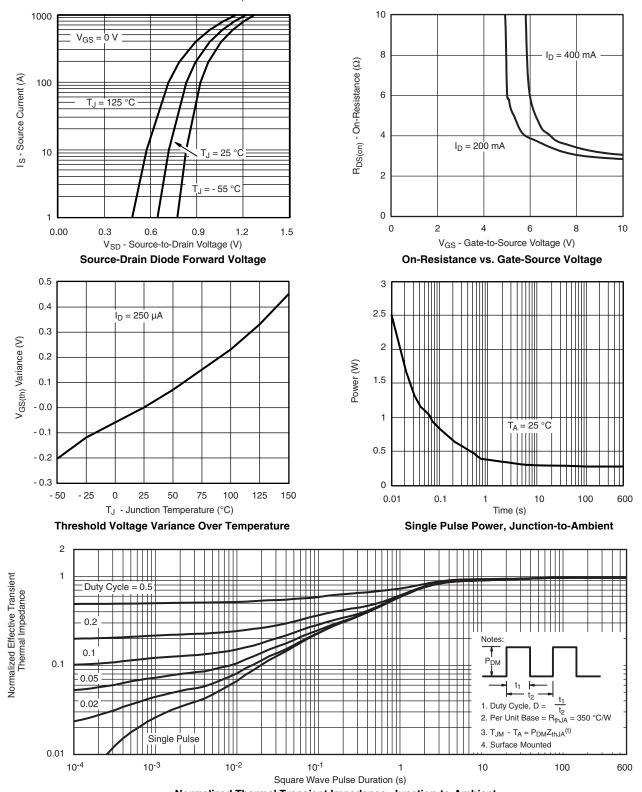


TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted





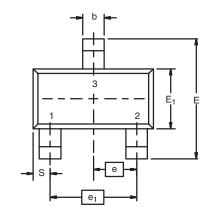
TYPICAL CHARACTERISTICS 25 °C, unless otherwise noted

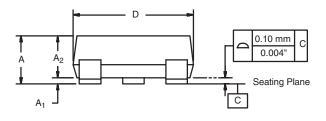


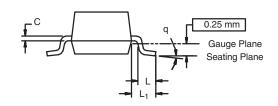
Normalized Thermal Transient Impedance, Junction-to-Ambient



SOT-23 (TO-236): 3-LEAD





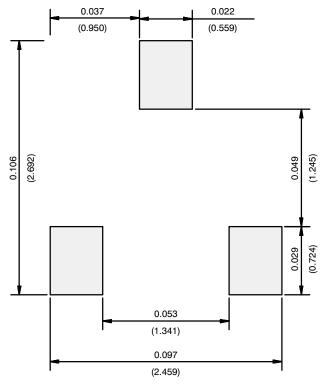


Dim	MILLIMETERS		INCHES		
	Min	Max	Min	Max	
Α	0.89	1.12	0.035	0.044	
A ₁	0.01	0.10	0.0004	0.004	
A ₂	0.88	1.02	0.0346	0.040	
b	0.35	0.50	0.014	0.020	
С	0.085	0.18	0.003	0.007	
D	2.80	3.04	0.110	0.120	
E	2.10	2.64	0.083	0.104	
E ₁	1.20	1.40	0.047	0.055	
е	0.95 BSC		0.0374 Ref		
e ₁	1.90 BSC		0.0748 Ref		
L	0.40	0.60	0.016	0.024	
L ₁	0.64 Ref		0.025 Ref		
S	0.50 Ref		0.020 Ref		
q	3°	8°	3°	8°	
ECN: S-03946-Rev. K. 09-	Jul-01	•			

DWG: 5479



RECOMMENDED MINIMUM PADS FOR SOT-23



Recommended Minimum Pads Dimensions in Inches/(mm)



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