

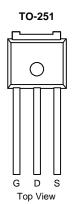
P-Channel 40 V (D-S) MOSFET

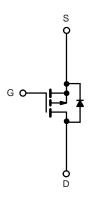
PRODUC	T SUMMARY	
V _{DS} (V)	R _{DS(on)} (Ω)	I _D (A) ^a
- 40	0.010 at V _{GS} = - 10 V	± 55
	0.014 at V_{GS} = - 4.5 V	± 54

FEATURES

Compliant to RoHS Directive 2002/95/EC







P-Channel MOSFET

ABSOLUTE MAXIMUM RAT	INGS (T _C = 25 °C, unless ot	herwise noted)			
Parameter		Symbol	Limit	Unit	
Gate-Source Voltage		V _{GS}	± 40	V	
Continuous Drain Current (T ₁ = 175 °C)	T _C = 25 °C		- 55 ^a		
Continuous Drain Current $(T_j = T/5 C)$	T _C = 125 °C	ID ID	- 52	А	
Pulsed Drain Current		I _{DM}	- 220	A	
Avalanche Current		I _{AR}	- 60	1	
Repetitive Avalanche Energy ^b	L = 0.1 mH	E _{AR}	180	mJ	
Power Dissipation	T _C = 25 °C	Р	45	W	
Power Dissipation	T _A = 25 °C	– P _D –	3.75	vv	
Operating Junction and Storage Temperature Range		T _J , T _{stg}	- 55 to 175	°C	

THERMAL RESISTANCE RATINGS					
Parameter		Symbol	Limit	Unit	
Junction-to-Ambient	PCB Mount (TO-263) ^c	р	40		
Junction-to-Ambient	Free Air (TO-220AB)	R _{thJA}	62.5	°C/W	
Junction-to-Case		R _{thJC}	0.8		

Notes:

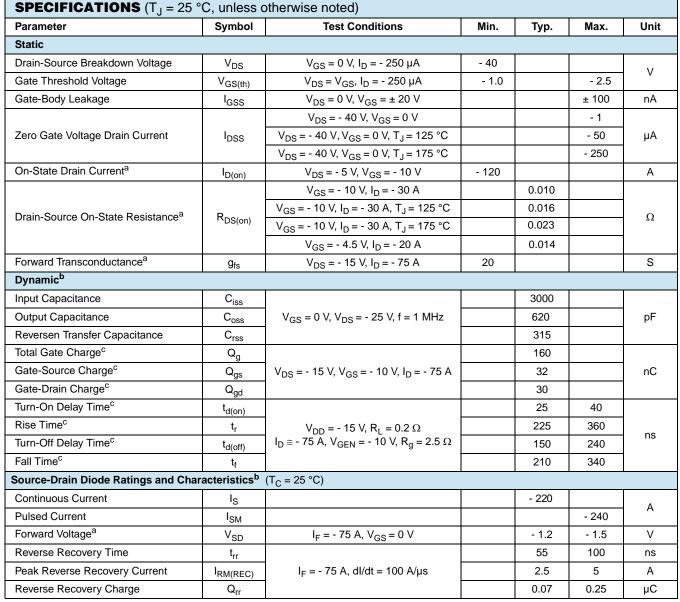
a. Package limited.

b. Duty cycle \leq 1 %.

c. When mounted on 1" square PCB (FR-4 material).

d. See SOA curve for voltage derating.

* Pb containing terminations are not RoHS compliant, exemptions may apply.



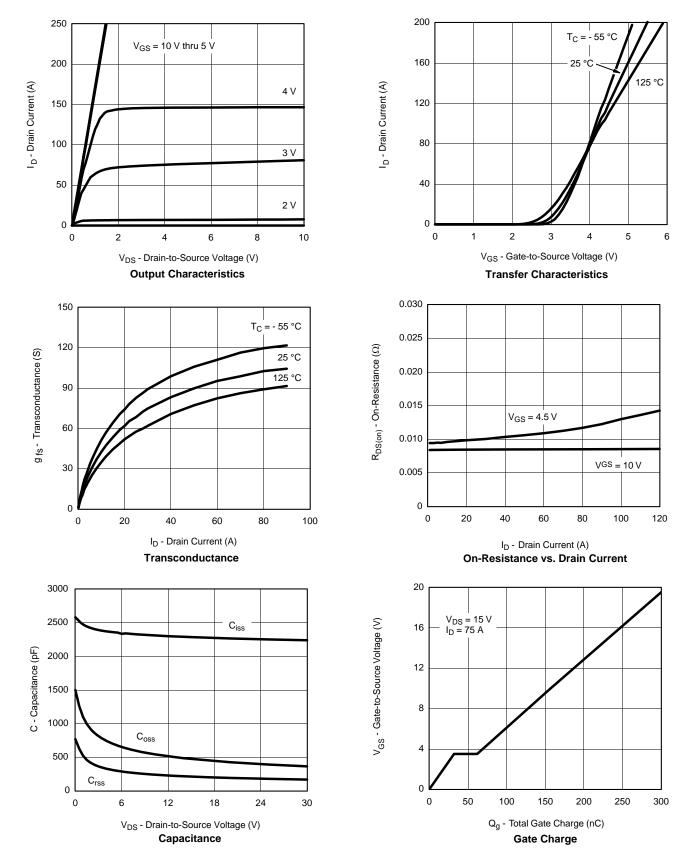
Notes:

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

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

c. 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.

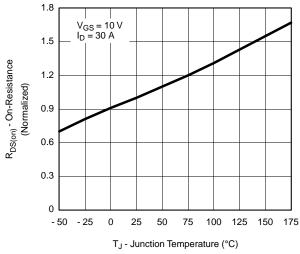


TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)

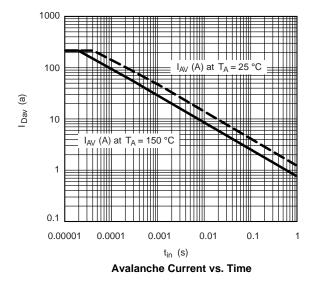


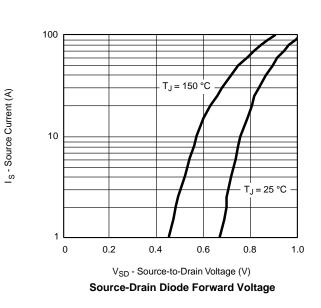


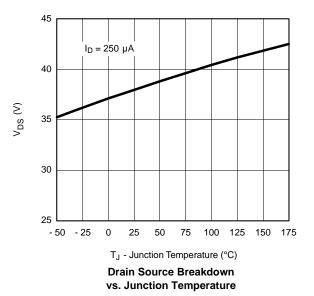
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)





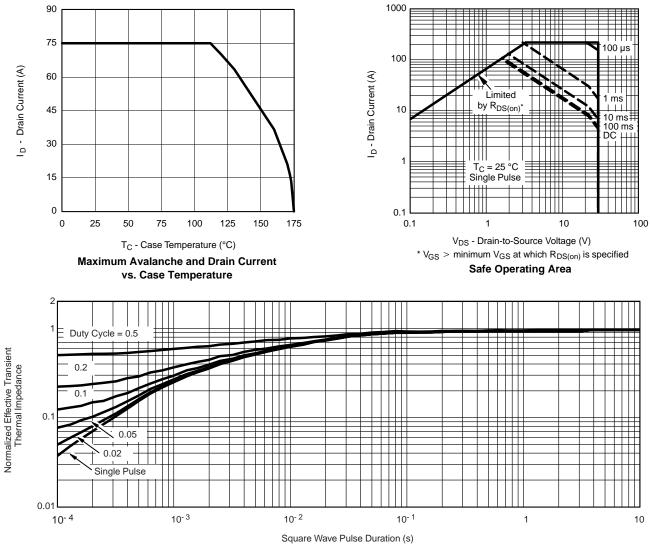








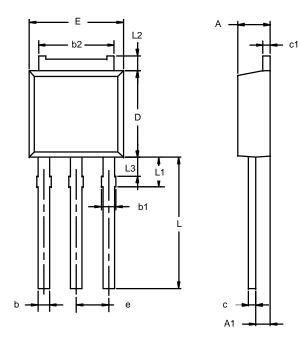
THERMAL RATINGS



Normalized Thermal Transient Impedance, Junction-to-Case



TO-251AA (DPAK)



Note: Dimension L3 is for reference only.

	MILLIN	IETERS	INCHES		
Dim	Min	Мах	Min	Max	
Α	2.21	2.38	0.087	0.094	
A1	0.89	1.14	0.035	0.045	
b	0.71	0.89	0.028	0.035	
b1	0.76	1.14	0.030	0.045	
b2	5.23	5.43	0.206	0.214	
С	0.46	0.58	0.018	0.023	
c1	0.46	0.58	0.018	0.023	
D	5.97	6.22	0.235	0.245	
Е	6.48	6.73	0.255	0.265	
е	2.28 BSC		0.090 BSC		
L	8.89	9.53	0.350	0.375	
L1	1.91	2.28	0.075	0.090	
L2	0.89	1.27	0.035	0.050	
L3	1.15	1.52	0.045	0.060	
ECN: S-0 DWG: 53	3946—Rev. E 346	E, 09-Jul-01			



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