



Ordering Information:

Absolute Maximum Ratings $T_C = 25$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	40	V
Gate-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current	$I_{D@TC=25}$	25	A
	$I_{D@TC=75}$	19	A
	$I_{D@TC=100}$	15.7	A
Pulsed Drain Current	I_{DM}	75	A

Total Power Dissipation 194.81 141.38 110.00

Thermal resistance

Parameter	Symbol	Min.	Typ.	Max.	Unit
Thermal resistance, junction - case	R_{thJC}	-	-	3.0	° C/W
Thermal resistance, junction - ambient	R_{thJA}	-	-	55	° C/W
Soldering temperature, wave soldering for 10s	T_{sold}	-	-	265	° C

Electronic Characteristics

Parameter	Symbol	Condition	Min.	Typ	Max.	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS} = 0V, I_D = 250\mu A$	40			V
Gate Threshold Voltage	$V_{GS(TH)}$	$V_{GS} = V_{DS}, I_D = 250\mu A$	1.2		2.5	V
Drain-Source Leakage Current	I_{DSS}	$V_{DS} = 40V, V_{GS} = 0V$			1.0	μA
Gate- Source Leakage Current	I_{GSS}	$V_{GS} = \pm 20V, V_{DS} = 0V$			100	nA
Static Drain-source On Resistance		$V_{GS} = 10V, I_D = 10A$				
		$V_{GS} = 4.5V, I_D = 10A$				
Forward Trans conductance	g_{FS}	$V_{DS} = 10V, I_D = 10A$				
Source-drain voltage		$I_S = 10A$				

Electronic Characteristics

Parameter	Condition	Min.	Typ	Max.	Unit
Input capacitance	F=1MHZ	-	805	-	pF
Output capacitance		-	94	-	
Reverse transfer capacitance		-	58	-	

Gate Charge characteristics

Parameter	Min.	Typ
-----------	------	-----



Dimensions(DFN3)