



Characteristic	Symbol	Max	Unit
Drain-Source Voltage	BV_{DSS}	55	V
Gate- Source Voltage	V_{GS}	+12 -	V
Drain Current (continuous)	I_D	2.1	A
Drain Current (pulsed)	I_{DM}	10	A
Total Device Dissipation TA=25°C	P_D	1250	mW
Junction	T_J	150	
Storage Temperature	T_{stg}	-55to+150	

Characteristic	Symbol	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage (ID = 10mA, VGS=0V)	BV _{DSS}	55	—	—	V
Gate Threshold Voltage (ID = 250uA, VGS= VDS)	V _{GS(th)}	0.6	—	2	V
Diode Forward Voltage Drop (IS=1A, VGS=0V)	V _{SD}	—	—	1	V
Zero Gate Voltage Drain Current VGS=0V, VDS= 44V, (VGS=0V, VDS= 44V, TA=55)	I _{DSS}	—	—	1	uA
Gate Body Leakage (VGS= ±12V, VDS=0V)	I _{GSS}	—	·	5	nA
Static Drain-Source On-State Resistance(ID= 2.1A, VGS= 4.5V)	R _{DS(ON)}	—	125	160	m
Static Drain-Source On-State Resistance(ID= 1.5A, VGS= 2.5V)	R _{DS(ON)}	—	160	200	m
Input Capacitance (VGS=0V, VDS= 25V,f=1MHz)	C _{ISS}	—	214	—	pF
Output Capacitance (VGS=0V, VDS= 25V,f=1MHz)	C _{OSS}	—	31	—	—
Turn-ON Time (VDS= 30V, VGS=10V, RGEN=3)	t(on)	—	2	—	n
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