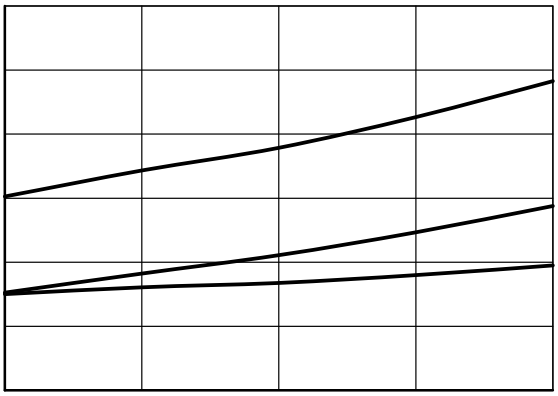
ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise specified) (continued)

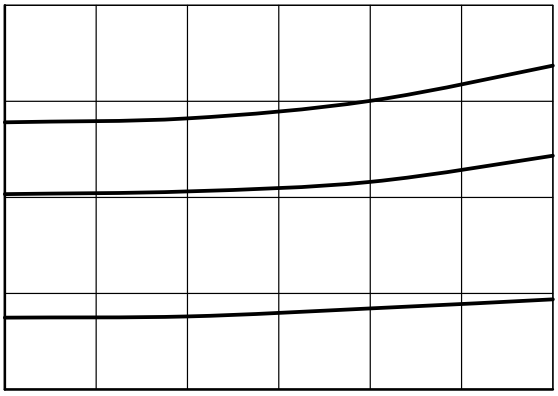
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
SOURCE−DRAIN DIODE CHARACTERISTICS						
Continuous Source−Drain Diode Forward Current	I_{SD}	V_{GS} = −3 V, T_C = 25°C (Note 6)	−	−	151	A
Pulsed Source−Drain Diode Forward Current (Note 2)	I_{SDM}		−	−	505	
Forward Diode Voltage	V_{SD}	V_{GS} = −3 V, I_{SD} = 75 A, T_J = 25°C	−	4.7	−	V
Reverse Recovery Time	t_{RR}	V_{GS} = −3/18 V, I_{SD} = 75 A, dI_S/dt = 1000 A/μs, V_{DS} = 800 V (Note 6)	−	29	−	ns
Reverse Recovery Charge	Q_{RR}		−	252	−	nC
Reverse Recovery Energy	E_{REC}		−	26	−	μJ
Peak Reverse Recovery Current	I_{RRM}		−	18	−	A
Charge Time	T_A		−	17	−	ns
Discharge Time	T_B		−	12	−	ns

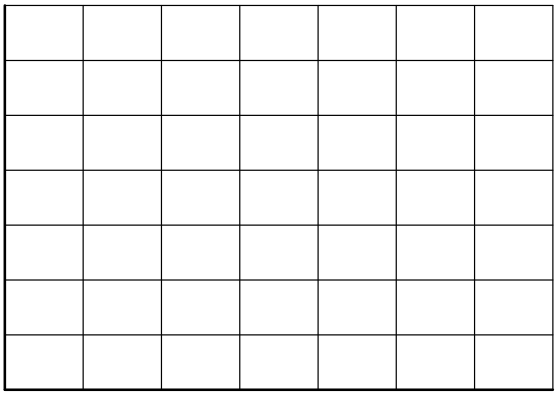
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

5. E_{ON}/E_{OFF} result is with body diode.
6. Defined by design, not subject to production test.

TYPICAL CHARACTERISTICS







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