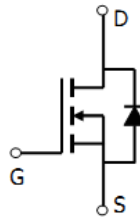
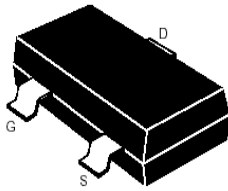


**SOT-23**

**Features**

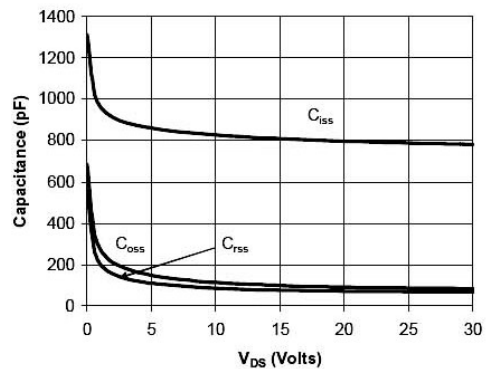
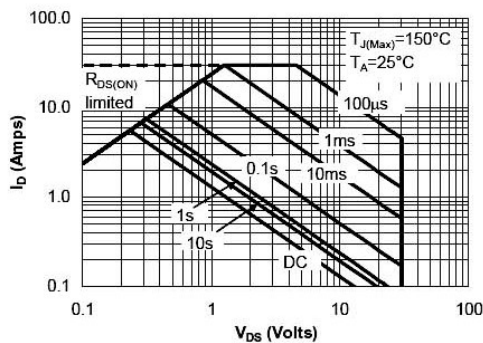
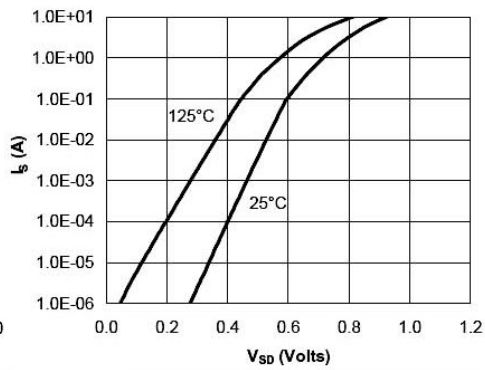
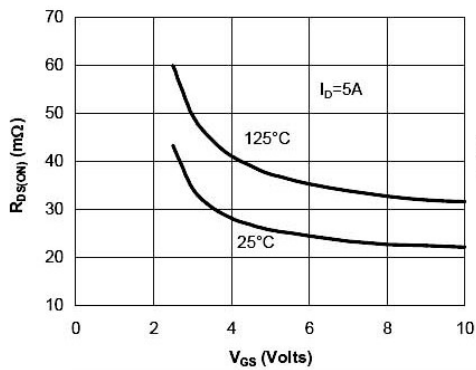
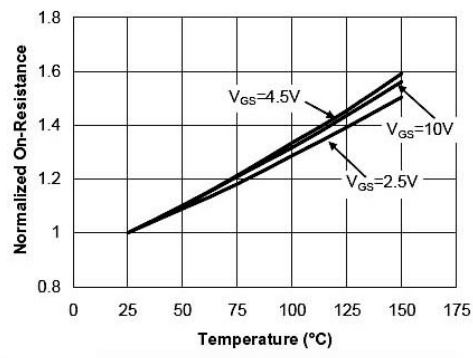
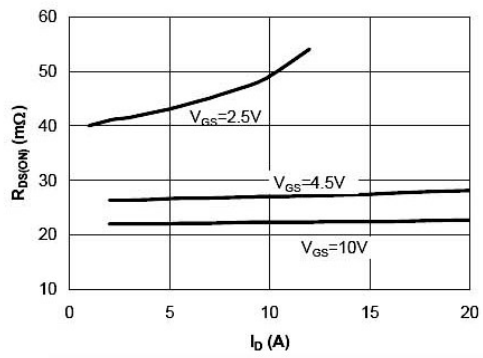
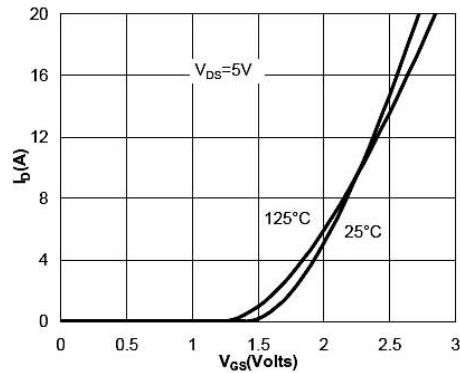
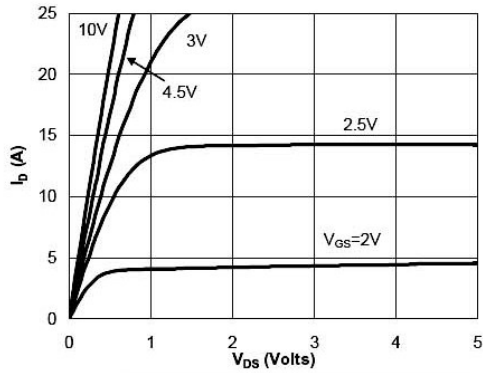
- Advanced trench process technology
- High Density Cell Design For Ultra Low On-Resistance

**MAXIMUM RANTINGS**

Characteristic	Symbol	Max	Unit
Drain-Source Voltage	$BV_{DSS}$	30	V
Gate- Source Voltage	$V_{GS}$	$\pm 12$	V
Drain Current (continuous)	$I_D$	5.8	A
Drain Current (pulsed)	$I_{DM}$	30	A
Total Device Dissipation $T_A=25^\circ C$	$P_D$	1400	mW
Junction	$T_J$	150	$^\circ C$
Storage Temperature	$T_{stg}$	-55to+150	$^\circ C$

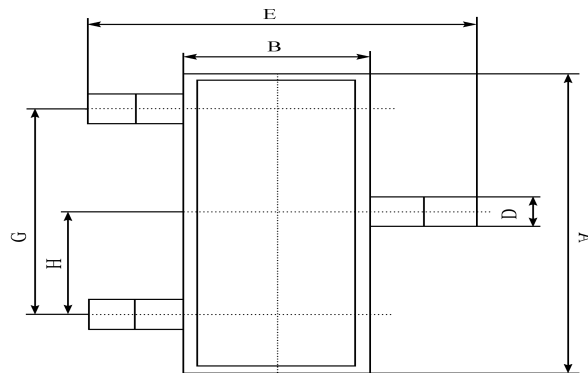
**Electrical Characteristics**

Characteristic	Symbol	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage ( $I_D = 250\mu A, V_{GS}=0V$ )	$BV_{DSS}$	30	—	—	V
Gate Threshold Voltage ( $I_D = 250\mu A, V_{GS}=V_{DS}$ )	$V_{GS(th)}$	0.7	1.1	1.4	V
Diode Forward Voltage Drop ( $I_S = 1 A, V_{GS}=0V$ )	$V_{SD}$	—	0.77	1	V
Zero Gate Voltage Drain Current ( $V_{GS}=0V, V_{DS}=24V$ )	$I_{DSS}$	—	—	1	$\mu A$
Gate Body Leakage ( $V_{GS}=\pm 12V, V_{DS}=0V$ )	$I_{GSS}$	—	—	$\pm 100$	nA
Static Drain-Source On-State Resistance ( $I_D = 5.8A, V_{GS}=10V$ )	$R_{DS(ON)}$	—	29	32	$m\Omega$
Static Drain-Source On-State Resistance ( $I_D = 5 A, V_{GS}=4.5 V$ )	$R_{DS(ON)}$	—	32	36	$m\Omega$
Static Drain-Source On-State Resistance ( $I_D = 4 A, V_{GS}=2.5 V$ )	$R_{DS(ON)}$	—	40	52	$m\Omega$
Input Capacitance ( $V_{GS}=0V, V_{DS}=15 V, f=1MHz$ )	$C_{ISS}$	—	823	—	pF
Output Capacitance ( $V_{GS}=0V, V_{DS}=15 V, f=1MHz$ )	$C_{OSS}$	—	99	—	pF
Turn-ON Time ( $V_{DS}=15 V, V_{GS}=10 V, R_{GEN}=3\Omega$ )	$t_{(on)}$	—	3.3	—	ns
Turn-OFF Time ( $V_{DS}=15 V, V_{GS}=10 V, R_{GEN}=3\Omega$ )	$t_{(off)}$	—	26.3	—	ns



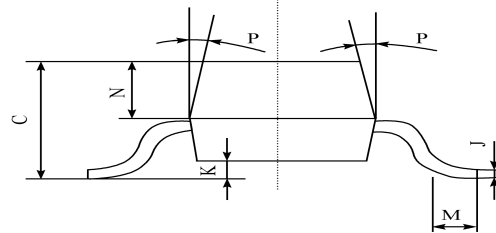


**SOT-23 PACKAGE OUTLINE** Plastic surface mounted package



SOT-23	
A	2.90 ± 0.10
B	1.30 ± 0.10
C	1.00 ± 0.10
D	0.40 ± 0.10
E	2.40 ± 0.20
G	1.90 ± 0.10
H	0.95 ± 0.05
J	0.13 ± 0.05
K	0.00-0.10
M	≥ 0.2
N	0.60 ± 0.10
P	7 ± 2°

(UNIT): mm



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