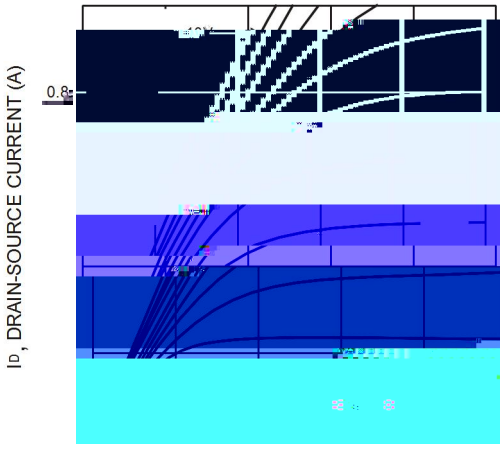
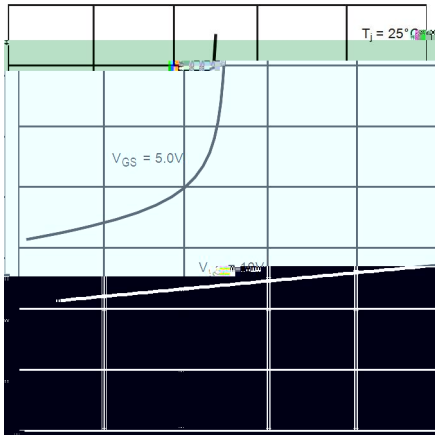
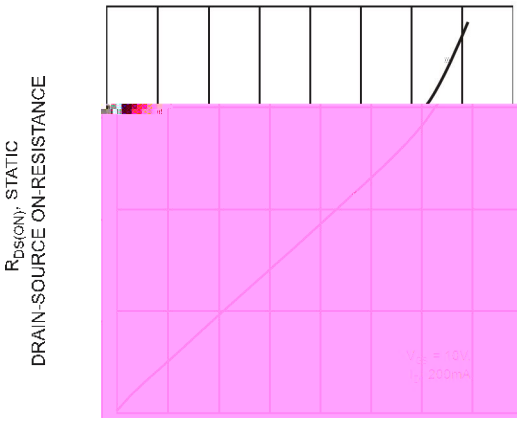
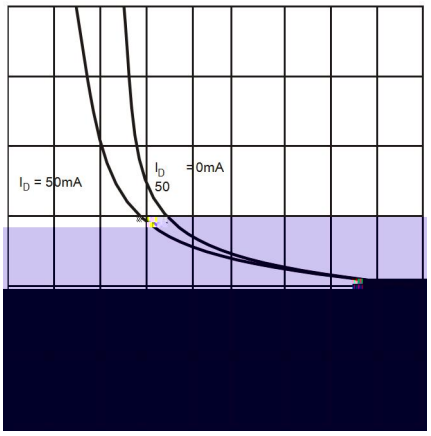
N-Channel Electrical Characteristics (T_A=25 , unless otherwise noted)

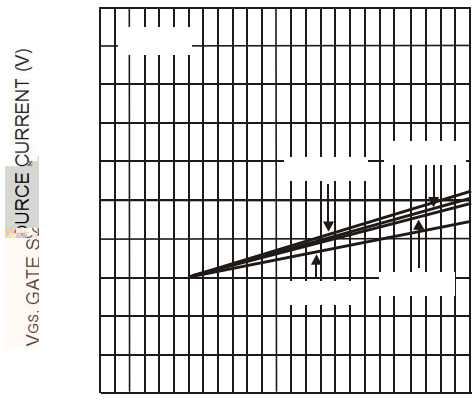
Characteristics	Test Condition	Symbols	Min	Typ	Max	Units
Drain-Source Breakdown Voltage	V_{GS}=0V, I_D=10μA	BV_{DSS}	60	70	-	V
Drain-Source Leakage Current	V_{DS}=60V, V_{GS}=0V T_J=25	I_{DSS}	-	-	1.0	εA
	V_{DS}=60V , V_{GS}=0V , T_J=125		-	-	500	
Gate-Source Leakage Current	V_{GS}=±20V, V_{DS}=0V	I_{GSS}	-	-	±10	nA
Gate -Threshold Voltage	V_{DS}=V_{GS}, I_D=250μA	$V_{GS(th)}$	1.0	-	2.5	V
Static Drain-Source On-Resistance[2]	V_{GS}=5.0V, I_D=0.05A T_J=25	$R_{DS(ON)}$	-	3.2	7.5	q
	V_{GS}=10V, I_D=0.5A T_J=125		-	4.4	13.5	q
On-State Drain Current	V_{GS}=10V, I_D=7.5V	$I_{D(ON)}$	0.5	1.0	-	A
Forward Transconductance	V_{DS} = 10V, I_D = 0.2A	g_{fs}	80	-	-	mS
Input Capacitance	V_{DS}=25V V_{GS}=0V f=1.0MHz	C_{iss}	-	22	50	pF
Output Capacitance		C_{oss}	-	4.5	10	pF

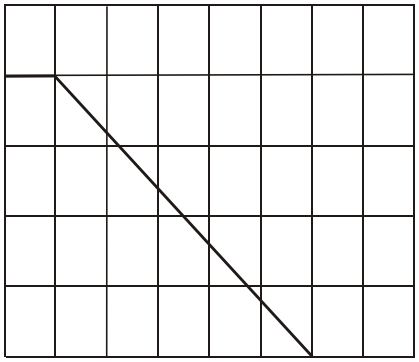

ID, DRAIN-SOURCE CURRENT (A)
0.8


Tj = 25°C
VGS = 5.0V

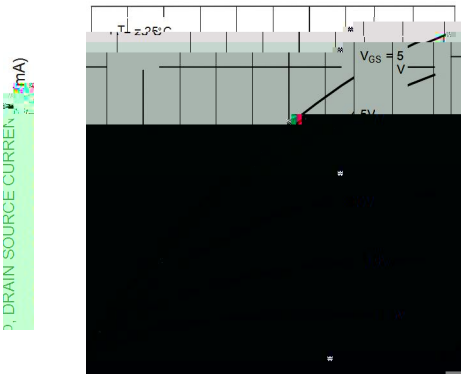

RDS(ON), STATIC
DRAIN-SOURCE ON-RESISTANCE

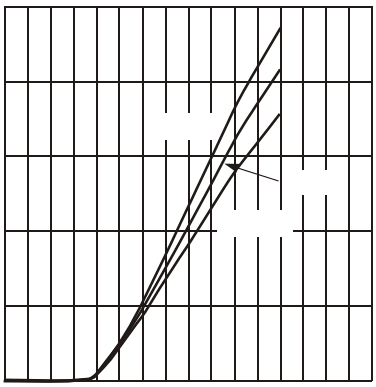

ID = 50mA
ID = 0mA
50

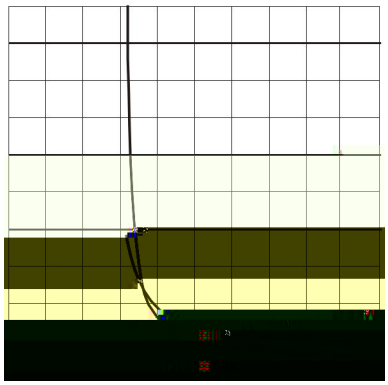

VGS, GATE SOURCE CURRENT (V)

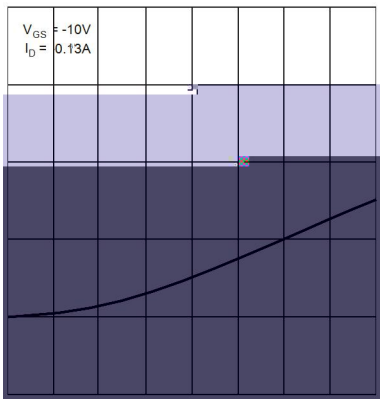

Pd, POWER DISSIPATION (mW)

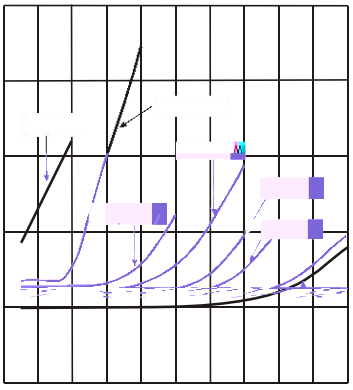
P-CHANNEL


VGS = 5
V


ID, DRAIN CURRENT (A)


RDS(ON), DRAIN-SOURCE ON-RESISTANCE (Ω)


VGS -10V
ID = 0.13A
RDS(ON), ON-RESISTANCE (Ω)

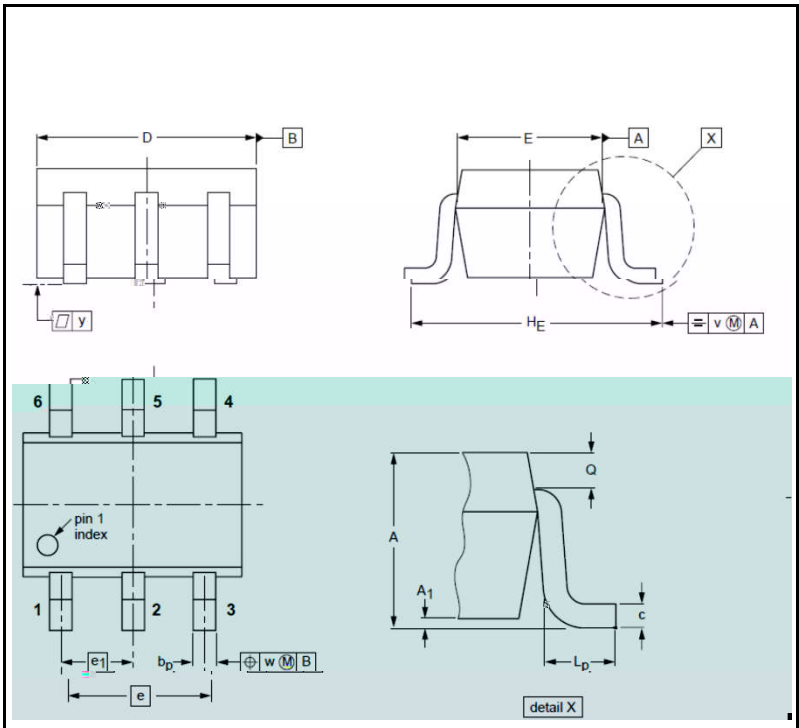

RDS,

Ordering information

Package	Packing Description	Packing Quantity
SOT-363	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOT-363



Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
A1	-	0.1	-	3.94
bp	0.20	0.30	7.87	11.81
c	0.10	0.25	3.94	9.84
D	1.8	2.2	70.87	86.61
E	1.15	1.35	45.28	53.15
e	1.3		51.18	
e1	0.65		25.6	
HE	2.0	2.2	78.74	86.6
Lp	0.15	0.45	5.90	17.71
Q	0.15	0.25	5.90	9.84
v	0.2		7.78	
w	0.2		7.78	
y	0.1		3.94	

The recommended mounting pad size

