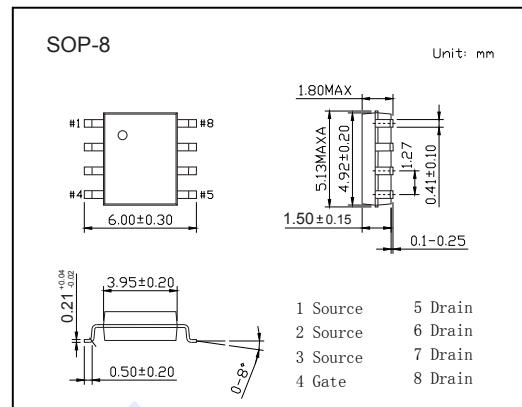
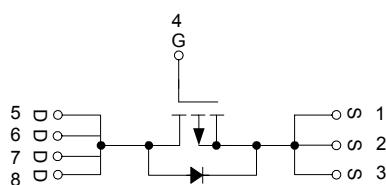


P-Channel MOSFET

APM9435K (APM9435KC)

■ Features

- V_{DS} (V) = -30V
 - I_D = -4.6 A (V_{GS} = -10V)
 - $R_{DS(ON)} < 52\text{m}\Omega$ (V_{GS} = -10V)
 - $R_{DS(ON)} < 80\text{m}\Omega$ (V_{GS} = -4.5V)



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Voltage	V _{GС}	±25	
Continuous Drain Current @ V _{GS} =-10V (Note.1)	I _D	-4.6	A
Pulsed Drain Current @ V _{GS} =-10V (Note.1)	I _{DM}	-20	
Power Dissipation Ta=25°C Ta=100°C	P _D	2	W
		0.8	
Thermal Resistance.Junction- to-Ambient	R _{thJA}	62.5	°C/W
Junction Temperature	T _J	150	°C
Junction Storage Temperature Range	T _{stg}	-55 to 150	

Note.1: Surface Mounted on 1in² pad area, t ≤ 10sec.

P-Channel MOSFET

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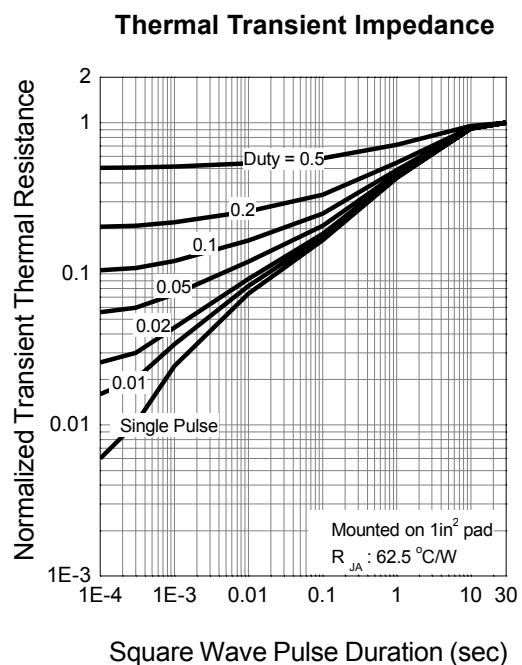
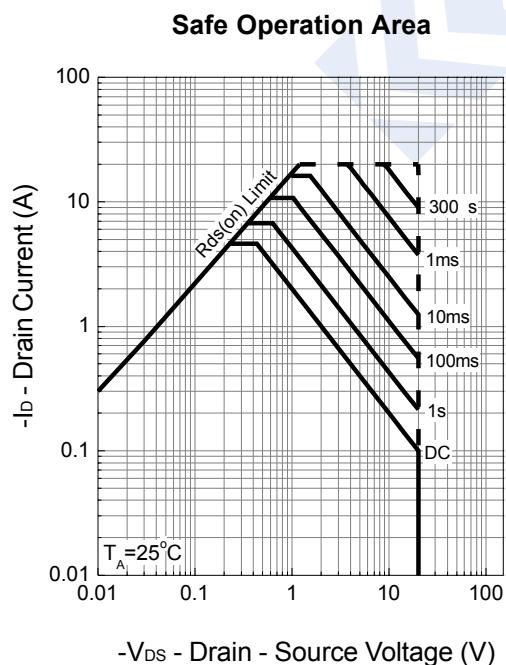
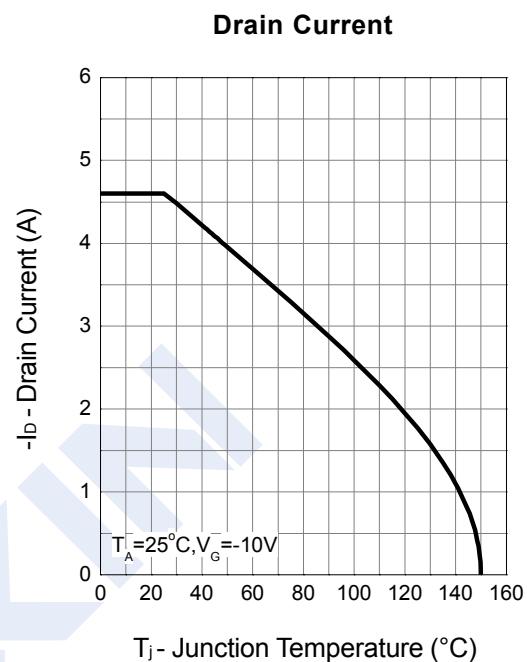
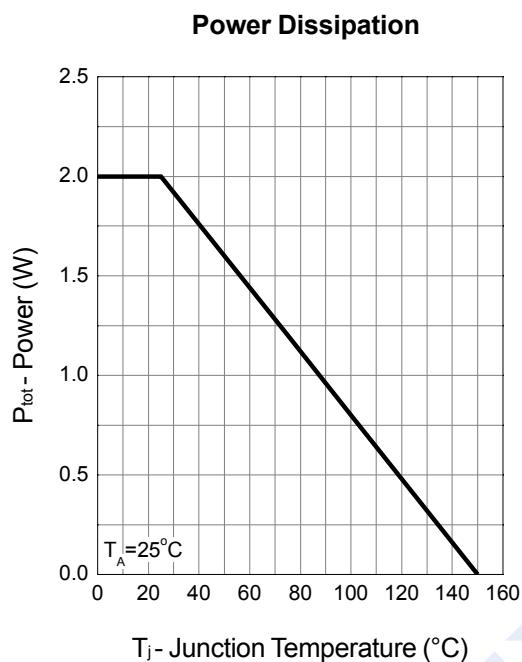
■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	V _{DSS}	I _D =-250 μ A, V _{GS} =0V	-30			V
Zero Gate Voltage Drain Current	I _{DSS}	V _{DSS} =-24V, V _{GS} =0V			-1	
		V _{DSS} =-24V, V _{GS} =0V, T _J =55°C			-30	μ A
Gate-Body leakage current	I _{GSS}	V _{DSS} =0V, V _{GS} =±25V			±100	nA
Gate Threshold Voltage	V _{GS(th)}	V _{DSS} =V _{GS} I _D =-250 μ A	-1		-2	V
Static Drain-Source On-Resistance	R _{D(on)}	V _{GS} =-10V, I _D =-4.6A (Note.1)		52	60	mΩ
		V _{GS} =-4.5V, I _D =-2A (Note.1)		80	95	
Input Capacitance	C _{iss}	V _{GS} =0V, V _{DSS} =-25V, f=1MHz		845		pF
Output Capacitance	C _{oss}			120		
Reverse Transfer Capacitance	C _{rss}			80		
Gate resistance	R _g	V _{GS} =0V, V _{DSS} =0V, f=1MHz		11.7		Ω
Total Gate Charge	Q _g	V _{GS} =-10V, V _{DSS} =-15V, I _D =-4.6A		22.5	29	nC
Gate Source Charge	Q _{gs}			4.5		
Gate Drain Charge	Q _{gd}			2		
Turn-On DelayTime	t _{d(on)}	V _{DD} =-15V, R _L =15Ω, I _{DS} =-1A, V _{GEN} =-10V, R _G =6Ω		8	17	ns
Turn-On Rise Time	t _r			8	18	
Turn-Off DelayTime	t _{d(off)}			35	60	
Turn-Off Fall Time	t _f			11	28	
Maximum Body-Diode Continuous Current	I _S				-2	A
Diode Forward Voltage	V _{SD}	I _S =-2A, V _{GS} =0V (Note.1)			-1.3	V

Note.1: Pulse test ; pulse width≤300μs, duty cycle≤2%.

P-Channel MOSFET
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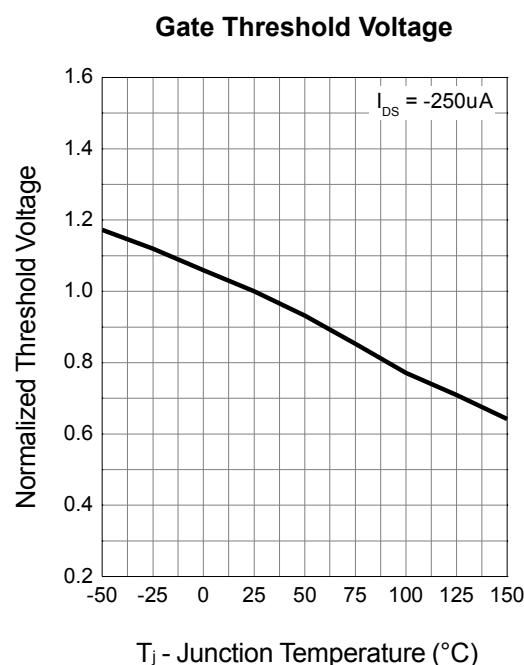
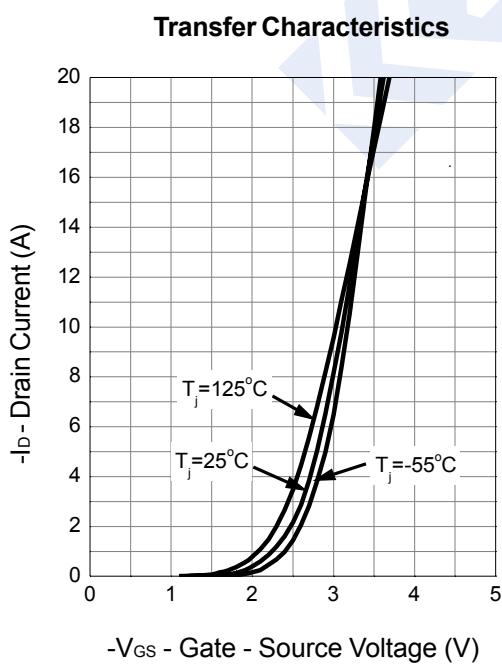
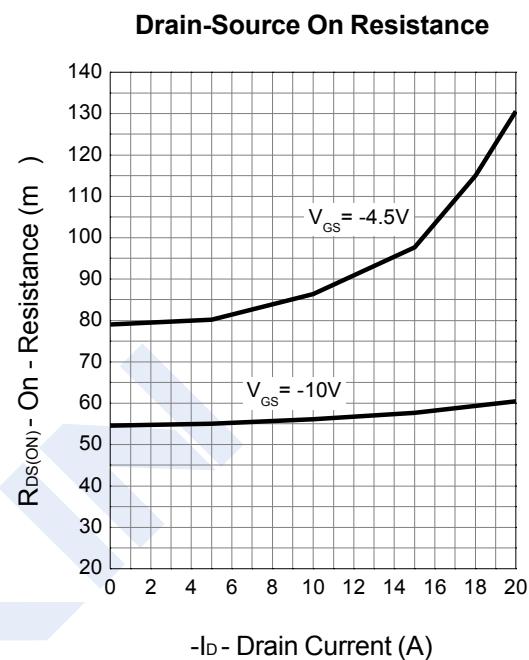
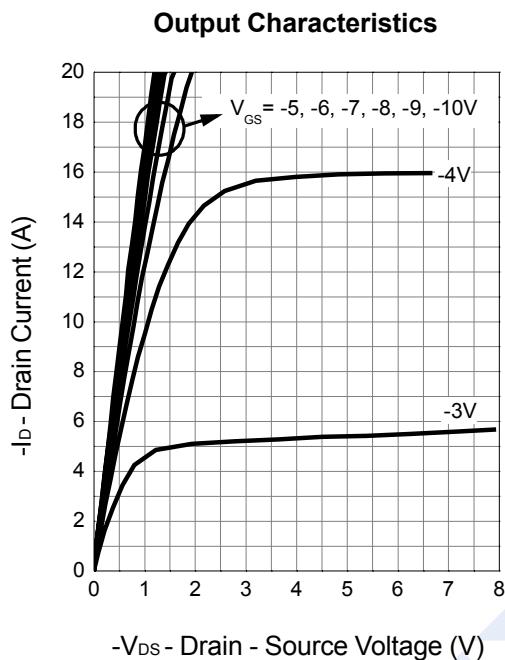
■ Typical Characteristics



P-Channel MOSFET

APM9435K (APM9435KC)

■ Typical Characteristics



P-Channel MOSFET
APM9435K (APM9435KC)

■ Typical Characteristics

