

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"

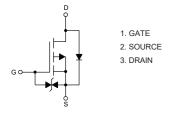
P-Channel Power MOSFET

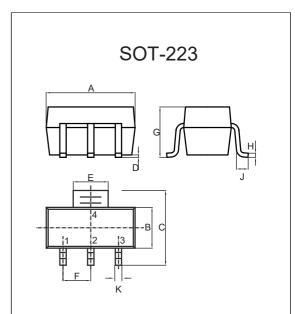
Maximum Ratings

- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-100	V
Gate-Source Volltage	V _{GS}	±20	V
Drain Current	I _D	-6.0	Α
Pulsed Drain Current ^(Note1)	I _{DM}	-30	Α
Total Power Dissipation	P_{D}	1.25	W

Internal Structure





DIMENSIONS					
DIM	INC	INCHES		M	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.248	0.264	6.30	6.70	
В	0.130	0.146	3.30	3.70	
С	0.264	0.287	6.70	7.30	
D	0.001	0.004	0.02	0.10	
Е	0.114	0.122	2.90	3.10	
F	0.091		0.091 2.30		TYP.
G		0.071		1.80	
Н	0.009	0.014	0.23	0.35	
J	0.030		0.75		
K	0.026	0.033	0.66	0.84	

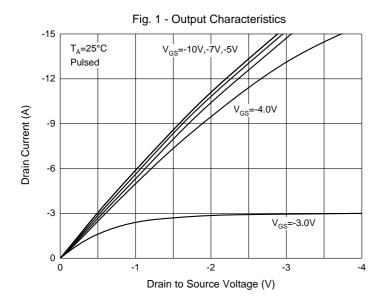


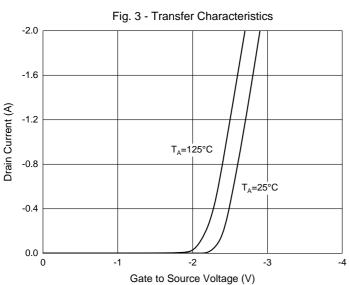
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

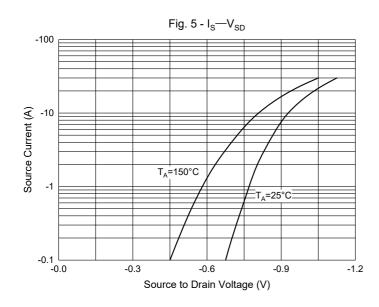
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics			ļ		ļ		
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	V _{GS} =0V, I _D =-250μA	-100			V	
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±16V			±10	μA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-100V, V _{GS} =0V			-1	μA	
Gate-Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250μA	-1.2	-1.75	-2.8	V	
Desir Course On Desirton	В	V _{GS} =-10V, I _D =-6A			205	mΩ	
Drain-Source On-Resistance	$R_{DS(on)}$	V _{GS} =-4.5V, I _D =-6A			250		
Forward Tranconductance	g _{FS}	V _{DS} =-15V, I _D =-5A	10			S	
Dynamic Characteristics							
Input Capacitance	C _{iss}			760			
Output Capacitance	C _{oss}	V_{DS} =-25V, V_{GS} =0V,f=1MHz		260		pF	
Reverse Transfer Capacitance	C _{rss}			170			
Switching Characteristics							
Total Gate Charge	Q_g			25			
Gate-Source Charge	Q_{gs}	V_{DD} =-50V, V_{GS} =-10V, I_{D} =-6A		5		nC	
Gate-Drain Charge	Q_{gd}			7		1	
Turn-On Delay Time	t _{d(on)}			14			
Turn-On Rise Time	t _r	V _{DD} =-50V, V _{GEN} =-10V		18		no	
Turn-Off Delay Time	t _{d(off)}	I_D =-6A, R_{GEN} =9.1 Ω		50		- ns	
Turn-Off Fall Time	t _f			18			
Drain-Source Body Diode Cha	racteristics	3					
Diode Forward Current	Is				-13	Α	
Diode Forward Voltage	V _{SD}	I _{SD} =-6A, V _{GS} =0V			-1.2	V	
Reverse Recovery Time	t _{rr}	_ I _F =-6A, di/dt=100A/μs		35		ns	
Reverse Recovery Charge	Q _{rr}	- 1;ολ, αι/αι- 100 <i>λ</i> /μ5		46		nC	
Forward Turn-On Time	T _{on}	Intrinsic Turn-On Time is Neglig	gible (Turn-0	On is Dom	inated by l	LS+LD)	

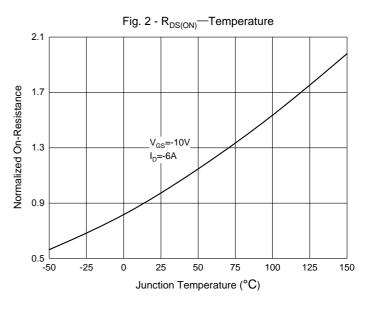


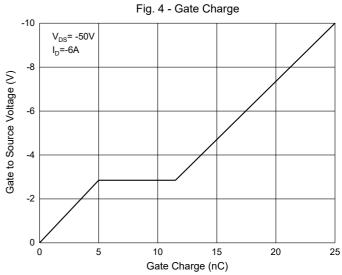
Curve Characteristics

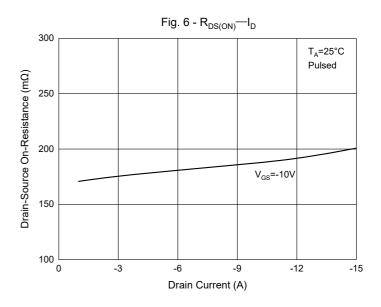














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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