

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. "Green" Device (Note1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 89°C/W Junction to Ambient (Note 2)

Symbol	Rating	Unit	
V _{DS}	-30	V	
V _{GS}	±20	V	
Ι _D	-8	Α	
I _{DM}	-32	Α	
P _D	1.4	W	
	V _{DS} V _{GS} I _D I _{DM}	V _{DS} -30 V _{GS} ±20 I _D -8 I _{DM} -32	

Note:

- 1.Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. The Value of $R_{\theta JA}$ is Measured with the Device Mounted on 1 in² FR-4 Board with 2oz. Copper, in a Still Air Environment with T_A =25°C.

Internal Structure and Marking Code





Dual

P-Channel

MOSFET



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Мах	Unit
Static Characteristics	1			1	1	L
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250µA	-30			V
Gate-Source Leakage Current	I _{GSS}	V_{DS} =0V, V_{GS} =±20V			±100	nA
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V			-15	μA
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=-250\mu A$	-1.0	-1.5	-2.5	V
Drain-Source On-Resistance ^(Note 3)	Б	V _{GS} =-10V, I _D =-8A		19	21	mΩ
	R _{DS(on)}	V _{GS} =-4.5V, I _D =-6.8A		26	32	
Forward Tranconductance	g fs	V _{DS} =-10V, I _D =-8A	12			S
Dynamic Characteristics ^(Note 4)						
Input Capacitance	C _{iss}			2675		pF
Output Capacitance	C _{oss}	V _{DS} =-25V,V _{GS} =0V,f=1MHz		409		
Reverse Transfer Capacitance	C _{rss}			262		
Total Gate Charge	Qg	V _{DD} =-15V,V _{GS} =-10V,I _D =-8A			78	
Gate-Source Charge	Q _{gs}			9.8		nC
Gate-Drain Charge	Q _{gd}			8.3		
Turn-On Delay Time	t _{d(on)}	V _{DD} =-15V, V _{GS} =-10V, I _D =-1A R _G =6Ω,R _D =15Ω			20	
Turn-On Rise Time	t _r				23	
Turn-Off Delay Time	t _{d(off)}				297	ns
Turn-Off Fall Time	t _f				147	
Drain-Source Body Diode Cha	racteristi	cs				1
Body Diode Voltage ^(Note 3)	V _{SD}	I _{SD} =-2A, V _{GS} =0V			-1.2	V

Notes :

3. Pulse Test : Pulse Width≤300µs, Duty Cycle≤2%.

4. Guaranteed by Design, Not Subject to Production Testing.





Curve Characteristics









Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 4Kpcs/Reel	

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