

TEXAS INSTRUMENTS Power MOSFET Transistors



RoHS Compliant This product is RoHS compliant.

N-CHANNEL NEXFET™ MOSFETS

NexFET™ power MOSFET technology delivers half the gate charge for the same resistance so that designers can achieve 90% power-supply efficiencies with double the frequency. NexFET™ power MOSFET technology improves energy efficiency in high-power computing, networking, server systems and power supplies.



RoHS Compliant

◆ Surface Mount Device

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Texas Instruments Part No.	Package	V _{DS} (Max) (V)	I _D (Max) (A)	I _{DM} (Max) (A)	R _{DS(on)} (Max)(Ω) @				V _{GS} (Max) (V)	Q _g (Typ) (nC)	Q _{gd} (Typ) (nC)	P _D (Max) (W)	Price Each											
						V _{GS} =10V								V _{GS} =8.0V				V _{GS} =4.5V				V _{GS} =3.0V			
						1	25	100	250					1	25	100	250	1	25	100	250	1	25	100	250
◆595-CSD16301Q2	CSD16301Q2	SON-6 2.0x2.0	25	5	20	-----	24	29	34	+10/-8	2.0	0.4	2.3												
◆595-CSD16411Q3	CSD16411Q3	SON-8 3.3x3.3	25	56	138	10	-----	15	-----	+16/-12	2.9	0.7	2.7												
◆595-CSD16410Q5A	CSD16410Q5A	SON-8 5.0x6.0	25	59	158	8.5	-----	12	-----	+16/-12	3.9	1.1	3.0												
◆595-CSD16406Q3	CSD16406Q3	SON-8 3.3x3.3	25	60	114	5.3	-----	7.4	-----	+16/-12	5.8	1.5	2.7												
◆595-CSD16409Q3	CSD16409Q3	SON-8 3.3x3.3	25	60	90	8.2	-----	12.4	-----	+16/-12	4.0	1.0	2.6												
◆595-CSD16340Q3	CSD16340Q3	SON-8 3.3x3.3	25	60	115	-----	4.5	5.5	7.8	+10/-8	6.5	1.2	3.0												
◆595-CSD16404Q5A	CSD16404Q5A	SON-8 5.0x6.0	25	81	135	5.1	-----	7.2	-----	+16/-12	6.5	1.7	3.0												
◆595-CSD16322Q5	CSD16322Q5	SON-8 5.0x6.0	25	97	136	-----	5.0	5.8	7.0	+10/-8	6.8	1.3	3.1												
◆595-CSD16401Q5	CSD16401Q5	SON-8 5.0x6.0	25	100	240	1.6	-----	2.3	-----	+16/-12	21	5.2	3.1												
◆595-CSD16414Q5	CSD16414Q5	SON-8 5.0x6.0	25	100	213	1.9	-----	2.6	-----	+16/-12	16.6	4.4	3.2												
◆595-CSD16407Q5	CSD16407Q5	SON-8 5.0x6.0	25	100	200	2.4	-----	3.3	-----	+16/-12	13.3	3.5	3.1												
◆595-CSD16413Q5A	CSD16413Q5A	SON-8 5.0x6.0	25	100	156	3.9	-----	5.6	-----	+16/-12	9.0	2.5	3.1												
◆595-CSD16325Q5	CSD16325Q5	SON-8 5.0x6.0	25	100	200	-----	2.0	2.2	2.9	+10/-8	18	3.5	3.1												
◆595-CSD16408Q5	CSD16408Q5	SON-8 5.0x6.0	25	113	141	4.5	-----	6.8	-----	+16/-12	6.7	1.9	3.1												
◆595-CSD17313Q2	CSD17313Q2	SON-6 2.0x2.0	30	5	20	-----	30	32	42	+10/-8	2.1	0.4	2.3												
◆595-CSD17307Q5A	CSD17307Q5A	SON-8 5.0x6.0	30	73	92	-----	10.5	12.1	17.3	+10/-8	4.0	1.0	3.0												
◆595-CSD17302Q5A	CSD17302Q5A	SON-8 5.0x6.0	30	87	104	-----	7.9	9.0	12.8	+10/-8	5.4	1.2	3.0												
◆595-CSD17303Q5	CSD17303Q5	SON-8 5.0x6.0	30	100	200	-----	2.4	2.6	3.7	+10/-8	18	4.0	3.2												
◆595-CSD17301Q5A	CSD17301Q5A	SON-8 5.0x6.0	30	100	118	-----	2.6	3.0	3.7	+10/-8	19	4.3	3.2												
◆595-CSD17305Q5A	CSD17305Q5A	SON-8 5.0x6.0	30	100	181	-----	3.4	3.6	5.4	+10/-8	14.1	3.0	3.1												
◆595-CSD17306Q5A	CSD17306Q5A	SON-8 5.0x6.0	30	100	155	-----	3.7	4.2	5.4	+10/-8	11.8	2.4	3.2												
◆595-CSD17310Q5A	CSD17310Q5A	SON-8 5.0x6.0	30	100	134	-----	5.1	5.9	7.8	+10/-8	8.9	0.8	3.1												

DUALCOOL™ N-CHANNEL NEXFET™ MOSFETS

TI's DualCool™ NexFET™ family of power MOSFETs delivers an industry standard footprint, while enabling thermally efficient cooling through the top and bottom of the package. This package allows power system designers to effectively direct heat away from the PCB in high-current DC/DC applications, resulting in improved power density, higher current capability and improved system reliability.



RoHS Compliant

◆ Surface Mount Device

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						V _{GS} =10V								V _{GS} =8.0V				V _{GS} =4.5V				V _{GS} =3.0V			
						1	25	100	250					1	25	100	250	1	25	100	250	1	25	100	250
◆595-CSD16322Q5C	CSD16322Q5C	SON-8 5.0x6.0	25	97	136	-----	5.0	5.8	7.0	+10/-8	6.8	1.3	3.1												
◆595-CSD16407Q5C	CSD16407Q5C	SON-8 5.0x6.0	25	100	200	2.4	-----	3.3	-----	+16/-12	13.3	3.5	3.1												
◆595-CSD16325Q5C	CSD16325Q5C	SON-8 5.0x6.0	25	100	200	-----	2.0	2.2	2.9	+10/-8	18	3.5	3.1												
◆595-CSD16321Q5C	CSD16321Q5C	SON-8 5.0x6.0	25	100	200	-----	2.4	2.6	3.5	+10/-8	14	2.5	3.1												

CICLON N-CHANNEL NEXFET™ MOSFETS



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						V _{GS} =10V								V _{GS} =8.0V				V _{GS} =4.5V				V _{GS} =3.0V			
						1	25	100	250					1	25	100	250	1	25	100	250	1	25	100	250
◆595-CSD16412Q5A	CSD16412Q5A	SON-8 5.0x6.0	25	52	91	11	-----	16	-----	+16/-12	2.9	0.7	3.0												
◆595-CSD16403Q5A	CSD16403Q5A	SON-8 5.0x6.0	25	100	184	2.8	-----	3.7	-----	+16/-12	13.3	3.5	3.1												

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RoHS Compliant

◆ Surface Mount Device

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MOUSER STOCK NO.	Texas Instruments Part No.	Package	V _{DS} (Max) (V)	I _D (Max) (A)	I _{DM} (Max) (A)	R _{DS(on)} (Max)(Ω) @				V _{GS} (Max) (V)	Q _g (Typ) (nC)	Q _{gd} (Typ) (nC)	P _D (Max) (W)	Price Each											
						V _{GS} =10V								V _{GS} =8.0V				V _{GS} =4.5V				V _{GS} =3.0V			
						1	25	100	250					1	25	100	250	1	25	100	250	1	25	100	250
◆595-CSD25401Q3	CSD25401Q3	SON-8 3.3x3.3	-20	-60	-82	-----	-----	11.7	18.2	+12/-12	8.8	2.1	2.8												

P-CHANNEL ENHANCEMENT-MODE MOSFETS (SINGLE)



RoHS Compliant

◆ Surface Mount Device

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Texas Instruments Part No.	Package	V _{DS} (Max) (V)	I _D (Max) (A)	I _{DM} (Max) (A)	R _{DS(on)} (Max)(Ω) @				V _{GS} (Max) (V)	Q _g (Typ) (nC)	Q _{gd} (Typ) (nC)	P _D (Max) (W)	Price Each											
						V _{GS} =10V								V _{GS} =8.0V				V _{GS} =4.5V				V _{GS} =3.0V			
						1	25	100	250					1	25	100	250	1	25	100	250	1	25	100	250
◆595-TPS1100D	TPS1100D	SOIC-8	-15	±1.6	±7	-----	0.4	0.7	0.85	2 or -15	5.45	1.4	0.791												
◆595-TPS1101D	TPS1101D	SOIC-8	-15	±2.3	±10	-----	0.19	0.31	0.4	2 or -15	11.25	2.6	0.791												

P-CHANNEL ENHANCEMENT-MODE MOSFETS (DUAL)



RoHS Compliant

◆ Surface Mount Device

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Texas Instruments Part No.	Package	V _{DS} (Max) (V)	I _D (Max) (A)	I _{DM} (Max) (A)	R _{DS(on)} (Max)(Ω) @				V _{GS} (Max) (V)	Q _g (Typ) (nC)	Q _{gd} (Typ) (nC)	P _D (Max) (W)	Price Each											
						V _{GS} =10V								V _{GS} =8.0V				V _{GS} =4.5V				V _{GS} =3.0V			
						1	25	100	250					1	25	100	250	1	25	100	250	1	25	100	250
◆595-TPS1120DR	TPS1120DR	SOIC-8	-15	±1.17	±7	-----	0.4	0.7	0.85	2 or -15	5.45	1.4	0.84												