

Ultrasound MOSFETs, Arrays and Drivers

Ultrasound MOSFETs

Device	BV_{DSS} (V)	$R_{DS(ON)}$ (Ω)	C_{ISS} (typ pF)	$V_{GS(TH)}$ (max V)	Package Options
TN2425	250	3.5	105	0.8 (min)	3-Lead SOT-89 (N8)
TN2524	240	6.0	65	2.0	3-Lead SOT-89 (N8)
TN2640	400	5.0	180	2.0	3-Lead TO-92 (N3)
TN5325	250	7.0	70	2.0	3-Lead SOT-23 (K1)
					3-Lead TO-92 (N3)
					3-Lead SOT-89 (N8)
TP2424	-240	8.0	200	-2.4	3-Lead SOT-89 (N8)
TP2520	-200	12	75	-2.0	3-Lead SOT-89 (N8)
TP2522	-220	12	75	-2.4	3-Lead SOT-89 (N8)
TP5322	-220	12	75	-2.4	3-Lead SOT-23 (K1)
					3-Lead SOT-89 (N8)

Complementary MOSFET Arrays

Device	BV_{DSS}/BV_{DGS}		$R_{DS(ON)}$ Max		$V_{GS(TH)}$ max (V)	Package Options	Demoboards	Applica-tion Notes	Notes
	N-Channel (V)	P-Channel (V)	N-Channel (Ω)	P-Channel (Ω)					
TC1550	500	-500	60	125	4.0	8-Lead SOIC (TG)	-	-	1
TC2320	200	-200	7.0	12	2.0	8-Lead SOIC (TG)	-	-	1
TC6215	150	-150	4.0	7.0	2.0	8-Lead SOIC (TG)	-	-	1
TC6320	200	-200	7.0	8.0	2.0	8-Lead QFN (K6)	MD1213DB1 MD1822DB2	AN-H53	1
						8-Lead SOIC (TG)			
TC7320	200	-200	20	20	0.4 (typ)	32-Lead LQFP (FG)	-	AN-H53	2
TC7920	200	-200	13	15	2.0	12-Lead DFN (K6)	MD1822DB1	-	3
TC8020	200	-200	8.0	9.5	3.0	56-Lead QFN (K6)	-	-	2
TC8220	200	-200	5.3	6.5	2.0	12-Lead DFN (K6)	MD1822DB3	-	3

Notes:

1. N & P-channel pair.
2. Six N & P-channel pairs.
3. Two N & P-channel pairs.

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Ultrasound MOSFET Drivers

Device	Channels	Input Voltage		Output Voltage		Package Options	Demoboards	Application Notes
		min (V)	max (V)	Bipolar (V)	Unipolar (V)			
MD1210	2	1.2	5.0	-	0-12	12-Lead QFN (K6)	-	-
MD1211	2	1.2	5.0	-	0-12	8-Lead SOIC (LG)	-	-
MD1213	2	1.2	5.0	±5.0	0-12	12-Lead QFN (K6)	MD1213DB1	-
MD1711	12	1.8	5.5	-	0-12	48-Lead QFN (K6) 48-Lead LQFP (FG)	MD1711DB2	-
MD1712	12	1.8	5.5	-	0-12	48-Lead QFN (K6)	-	-
MD1715	2	1.8	3.6	-	0-12	40-Lead QFN (K6)	-	-
MD1716	3	1.8	3.6	-	0-12	40-Lead QFN (K6)	-	-
MD1810	4	1.2	5.0	±5.0	0-12	16-Lead QFN (K6)	-	-
MD1811	4	1.2	5.0	±5.0	0-12	16-Lead QFN (K6)	-	AN-H54
MD1812	4	1.2	5.0	±5.0	0-12	16-Lead QFN (K6)	-	AN-H56
MD1813	4	1.2	5.0	±5.0	0-12	16-Lead QFN (K6)	-	AN-H56
MD1820	4	1.7	5.25	±5.0	0-12	16-Lead QFN (K6)	-	-
MD1821	4	1.7	5.25	±5.0	0-12	16-Lead QFN (K6)	-	-
MD1822	4	1.7	5.25	±5.0	0-12	16-Lead QFN (K6)	MD1822DB1 MD1822DB2 MD1822DB3	-

Ultrasound Beamformer Source Drivers

Device	Resolution	Amplitude Control	Apodization	Input Voltage (V)	Typical Delay Time (ns)	Output Current (A)	Package	Demoboards
MD2131	7.5° Phase	PWM	8-Bit SPI	2.5	4.0	0 - 3.0	40-Lead QFN (K6)	MD2131DB1
MD2134	±127 Steps	PAM	8-Bit SPI	2.5	4.0	0 - 3.0	40-Lead QFN (K6)	MD2134DB1