

Trench Power MOSFETs



Part Type	V _{DS}	I _{D(on)} Chip T _C = 25°C A	R _{DS(on)} T _J = 25°C Ω	C _{iss} typ. ns	Q _g typ. ns	t _{rv} typ. ns	R _{thJC} K/W	P _D W	Fig. No.	Package style
➤ New	V	A	Ω	ns	ns	ns	K/W	W		Outline drawings on pages O-31...O-52
IOTP 44N10T	100	44	0.03	1567	27.4	60	1.15	130	X005a	X004 
IXTY 44N10T		44	0.03	1567	27.4	60	1.15	130	X004	
IOTP 60N10T		60	0.018	2650	49	59	0.85	176	X005a	
IXTA 60N10T		60	0.018	2650	49	59	0.85	176	X011b	
IXTQ 60N10T		60	0.018	2650	49	59	0.85	176	X017a	
IOTP 80N10T		80	0.014	3040	60	100	0.65	230	X005a	
IXTA 80N10T		80	0.014	3040	60	100	0.65	230	X011b	X005a 
IXTF 200N10T		90	0.007	9400	152	76	0.96	156	X024d	
IXTL 2x180N10T		100	0.0074	6900	151	60	1.00	150	X022c	
IOTP 130N10T		130	0.0091	5080	104	67	0.42	360	X005a	X011b 
IXTH 130N10T		130	0.0091	5080	104	67	0.42	360	X014a	
IXTA 130N10T		130	0.0091	5080	104	67	0.42	360	X011b	
IXTQ 130N10T		130	0.0091	5080	104	67	0.42	360	X017a	
IOTP 180N10T		180	0.0064	6900	151	72	0.31	480	X005a	X014a 
IXTH 180N10T		180	0.0064	6900	151	100	0.31	480	X014a	
IXTA 180N10T		180	0.0064	6900	151	72	0.31	480	X011b	
IXTQ 180N10T		180	0.0064	6900	151	100	0.31	480	X017a	
IXTN 200N10T		200	0.0055	9400	152	76	0.30	550	X027a	X014a 
IXTH 200N10T		200	0.0055	9400	152	76	0.27	550	X014a	
IXTQ 200N10T		200	0.0055	9400	152	76	0.27	550	X017a	
IOTP 48N20T	200	48	0.05	3090	60	130	0.5	250	X005a	X017a 
IXTA 48N20T		48	0.05	3090	60	130	0.5	250	X011b	
IXTQ 48N20T		48	0.05	3090	60	130	0.5	250	X017a	
IOTP 60N20T		60	0.04	4530	73	118	0.3	500	X005a	
IXTA 60N20T		60	0.04	4530	73	118	0.3	500	X011b	X022c 
IXTQ 60N20T		60	0.04	4530	73	118	0.3	500	X017a	
IOTP 86N20T		86	0.029	4500	90	140	0.31	480	X005a	
IXTA 86N20T		86	0.029	4500	90	140	0.31	480	X011b	
IXTQ 86N20T		86	0.029	4500	90	140	0.31	480	X017a	X014a 
IXTH 102N20T		102	0.023	6800	114	130	0.2	750	X014a	
IXTQ 102N20T		102	0.023	6800	114	130	0.2	750	X017a	
IXTH 130N20T		130	0.016	8800	150	150	0.18	830	X014a	
IOTP 50N25T	250	50	0.06	4000	78	166	0.31	400	X005a	X024d 
IXTH 50N25T		50	0.06	4000	78	166	0.31	400	X014a	
IXTA 50N25T		50	0.06	4000	78	166	0.31	400	X011b	
IXTQ 50N25T		50	0.06	4000	78	166	0.31	400	X017a	
IOTP 76N25T		76	0.039	4920	92	148	0.27	460	X005a	X027a 
IXTH 76N25T		76	0.039	4920	92	148	0.27	460	X014a	
IXTA 76N25T		76	0.039	4920	92	148	0.27	460	X011b	
IXTQ 76N25T		76	0.039	4920	92	148	0.27	460	X017a	
IXTH 86N25T		86	0.037	5330	105	156	0.23	540	X014a	
IXTQ 86N25T		86	0.037	5330	105	156	0.23	540	X017a	
IXTH 96N25T		96	0.029	6100	114	158	0.2	625	X014a	
IXTQ 96N25T		96	0.029	6100	114	158	0.2	625	X017a	
IXTH 110N25T		110	0.024	9400	157	170	0.18	694	X014a	

Trench HiPerFETs with Fast Intrinsic Diode



Part Type	V _{DS}	I _{D(cont)} Chip T _C = 25°C	R _{DS(on)} T _C = 25°C	C _{iss}	Q _g	t _{rr} max. (typ.) ns	R _{θJC}	P _D	Fig. No.	Package style Outline drawings on pages O-31...O-52
➤ New	V	A	Ω	pF	nC		K/W	W		
IXFA 130N10T	100	130	0.0091	5080	104	67	0.42	360	X011b	D5 DE 475
IXFP 130N10T		130	0.0091	5080	104	67	0.42	360	X005a	
IXFH 230N10T		230	0.0047	15300	250	(82)	0.23	650	X014a	
IXFX 360N10T		360	0.0029	33000	525	130	0.12	1250	X015a	
IXFN 360N10T		360	0.0026	33000	525	130	0.18	830	X027a	X005a TO-220AB
IXFK 360N10T		360	0.0029	33000	525	130	0.12	1250	X020a	
IXFX 420N10T		420	0.0026	47000	670	140	0.09	1670	X015a	
IXFN 420N10T		420	0.0023	47000	670	140	0.14	1070	X027a	
IXFK 420N10T		420	0.0026	47000	670	140	0.09	1670	X020a	
IXFA 102N15T	150	102	0.018	5220	87	120	0.33	455	X011b	X011b TO-263AB
IXFH 102N15T		102	0.018	5220	87	120	0.33	455	X014a	
IXFP 102N15T		102	0.018	5220	87	120	0.33	455	X005a	
IXFH 160N15T		160	0.0096	8800	160	90	0.18	830	X014a	
IXFH 150N20T	200	150	0.015	11700	177	(100)	0.14	890	X014a	
IXFT 150N20T		150	0.015	11700	177	(100)	0.14	890	X019	X014a TO-247AD
IXFR 230N20T		156	0.008	28000	378	200	0.25	600	X016a	
IXFX 170N20T		170	0.011	19600	265	200	0.13	1150	X015a	
IXFK 170N20T		170	0.011	19600	265	200	0.13	1150	X020a	
IXFN 230N20T		220	0.0075	28000	378	200	0.138	1090	X027a	
IXFX 230N20T		230	0.0075	28000	378	200	0.09	1670	X015a	X015a PLUS247
IXFK 230N20T		230	0.0075	28000	378	200	0.9	1670	X020a	
IXFZ 140N25T	250	100	0.017	19000	255	200	0.28	445	D5	
IXFH 110N25T		110	0.024	9400	157	170	0.18	694	X014a	
IXFH 120N25T		120	0.023	11300	180	(108)	0.14	890	X014a	
IXFT 120N25T		120	0.023	11300	180	(108)	0.14	890	X019	X016a ISOPLUS247™
IXFN 140N25T		120	0.017	19000	255	200	0.18	690	X027a	
IXFX 140N25T		140	0.017	19000	255	200	0.13	960	X015a	
IXFK 140N25T		140	0.017	19000	255	200	0.13	960	X020a	
IXFN 180N25T		164	0.0129	28000	345	200	0.138	900	X027a	
IXFX 180N25T		180	0.0129	28000	345	200	0.09	1390	X015a	X019 TO-268AA
IXFK 180N25T		180	0.0129	28000	345	200	0.09	1390	X020a	
➤ IXFH 46N30T	300	46	0.08	4770	86	150	0.27	460	X014a	
➤ IXFT 46N30T		46	0.08	4770	86	150	0.27	460	X019	
IXFH 86N30T		86	0.043	11300	180	150	0.15	830	X014a	
IXFT 86N30T		86	0.043	11300	180	150	0.15	830	X019	X020a TO-264
IXFH 94N30T		94	0.036	11400	190	(155)	0.14	890	X014a	
IXFT 94N30T		94	0.036	11400	190	(155)	0.14	890	X019	
IXFX 120N30T		120	0.024	20000	265	200	0.13	960	X015a	
IXFK 120N30T		120	0.024	20000	265	200	0.13	960	X020a	
IXFN 160N30T		130	0.019	28000	335	200	0.138	900	X027a	X027a SOT-227B miniBLOC
IXFX 160N30T		160	0.019	28000	335	200	0.09	1390	X015a	
IXFK 160N30T		160	0.019	28000	335	200	0.09	1390	X020a	