

Polar™ Standard MOSFETs



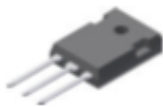
Part Type	V _{DS}	I _{D(on)} Chip	R _{DS(on)}	C _{iss}	Q _s	t _{rr}	R _{thJA}	P _D	Fig. No.	Package style
> New	V	T _J = 25°C A	T _J = 25°C Ω	typ pF	typ nC	typ ns	K/W	W		Outline drawings on pages O-31...O-52
IXTP 75N10P	100	75	0.025	2250	74	120	0.42	360	X005a	TO-220AB
IXTA 75N10P		75	0.025	2250	74	120	0.42	360	X011b	
IXTQ 75N10P		75	0.025	2250	74	120	0.42	360	X017a	
IXTT 110N10P		110	0.015	3550	110	130	0.31	480	X019	
IXTQ 110N10P		110	0.015	3550	110	130	0.31	480	X017a	
IXTR 200N10P		120	0.008	7600	235	100	0.5	300	X016a	
IXTT 140N10P		140	0.011	4700	155	120	0.25	600	X019	
IXTQ 140N10P		140	0.011	4700	155	120	0.25	600	X017a	
IXTK 170N10P		170	0.009	6000	198	120	0.21	715	X020a	
IXTT 170N10P		170	0.009	6000	198	120	0.21	715	X019	
IXTQ 170N10P		170	0.009	6000	198	120	0.21	715	X017a	
IXTK 200N10P		200	0.0075	7600	240	100	0.18	800	X020a	
IXTP 62N15P	150	62	0.04	2250	70	150	0.42	350	X005a	TO-263AB
IXTA 62N15P		62	0.04	2250	70	150	0.42	350	X011b	
IXTQ 62N15P		62	0.04	2250	70	150	0.42	350	X017a	
IXTT 96N15P		96	0.024	3500	110	150	0.31	480	X019	
IXTQ 96N15P		96	0.024	3500	110	150	0.31	480	X017a	
IXTT 120N15P		120	0.016	4900	150	150	0.25	600	X019	
IXTQ 120N15P		120	0.016	4900	150	150	0.25	600	X017a	
IXTK 150N15P		150	0.013	5800	190	150	0.21	714	X020a	
IXTQ 150N15P		150	0.013	5800	190	150	0.21	714	X017a	
IXTK 180N15P		180	0.01	7000	240	150	0.18	800	X020a	
IXTP 50N20P	200	50	0.06	2720	70	150	0.42	360	X005a	TO-247AD
IXTA 50N20P		50	0.06	2720	70	150	0.42	360	X011b	
IXTQ 50N20P		50	0.06	2720	70	150	0.42	360	X017a	
IXTT 74N20P		74	0.034	3300	107	160	0.31	480	X019	
IXTQ 74N20P		74	0.034	3300	107	160	0.31	480	X017a	
IXTH 96N20P		96	0.024	4800	145	160	0.25	600	X014a	
IXTT 96N20P		96	0.024	4800	145	160	0.25	600	X019	
IXTQ 96N20P		96	0.024	4800	145	160	0.25	600	X017a	
IXTK 120N20P		120	0.022	6000	152	180	0.21	714	X020a	
IXTQ 120N20P		120	0.022	6000	152	180	0.21	714	X017a	
IXTK 140N20P		140	0.018	7500	240	180	0.18	800	X020a	
IXTP 42N25P	250	42	0.084	2300	70	200	0.42	300	X005a	TO-3P
IXTA 42N25P		42	0.084	2300	70	200	0.42	300	X011b	
IXTQ 42N25P		42	0.084	2300	70	200	0.42	300	X017a	
IXTT 64N25P		64	0.049	3450	105	200	0.31	400	X019	
IXTQ 64N25P		64	0.049	3450	105	200	0.31	400	X017a	
IXTK 82N25P		82	0.035	4800	142	200	0.25	500	X020a	
IXTT 82N25P		82	0.035	4800	142	200	0.25	500	X019	
IXTQ 82N25P		82	0.035	4800	142	200	0.25	500	X017a	
IXTK 100N25P		100	0.027	6300	185	200	0.21	600	X020a	
IXTT 100N25P		100	0.027	6300	185	200	0.21	600	X019	
IXTQ 100N25P		100	0.027	6300	185	200	0.21	600	X017a	
IXTK 120N25P		120	0.024	8700	185	200	0.18	700	X020a	
IXTP 36N30P	300	36	0.11	2250	70	250	0.42	300	X005a	TO-264
IXTA 36N30P		36	0.11	2250	70	250	0.42	300	X011b	
IXTQ 36N30P		36	0.11	2250	70	250	0.42	300	X017a	
IXTT 52N30P		52	0.066	3490	110	250	0.31	400	X019	
IXTQ 52N30P		52	0.066	3490	110	250	0.31	400	X017a	
IXTT 69N30P		69	0.049	4960	156	330	0.25	500	X019	
IXTQ 69N30P		69	0.049	4960	156	330	0.25	500	X017a	
IXTH 88N30P		88	0.04	6300	180	250	0.21	600	X014a	
IXTK 88N30P		88	0.04	6300	180	250	0.21	600	X020a	
IXTT 88N30P		88	0.04	6300	180	250	0.21	600	X019	
IXTQ 88N30P		88	0.04	6300	180	250	0.21	600	X017a	
IXTK 102N30P		102	0.033	7500	224	250	0.18	700	X020a	
IXTK 140N30P		140	0.24	14800	185	250	0.12	1040	X020a	



Part Type	V _{DS}	I _{D(on)} Chip	R _{D(on)}	C _{iss}	Q _g	t _{typ}	R _{thJC}	P _D	Fig. No.	Package style
	V	T _C = 25°C	T _J = 25°C	pF	nC	ns	K/W	W		Outline drawings on pages O-31...O-52
		A	Ω							
IXTP 12N50P	500	12	0.5	1830	29	300	0.62	200	X005a	X004 TO-252AA 
IXTA 12N50P		12	0.5	1830	29	300	0.62	200	X011b	
IXTP 16N50P		16	0.4	2480	43	400	0.42	300	X005a	
IXTA 16N50P		16	0.4	2480	43	400	0.42	300	X011b	
IXTQ 16N50P		16	0.4	2480	43	400	0.42	300	X017a	
IXTH 22N50P		22	0.27	2880	50	400	0.35	350	X014a	
IXTQ 22N50P		22	0.27	2880	50	400	0.35	350	X017a	
IXTT 26N50P		26	0.23	3600	65	300	0.31	400	X019	
IXTQ 26N50P		26	0.23	3600	65	300	0.31	400	X017a	
IXTH 30N50P		30	0.2	4150	70	400	0.27	460	X014a	
IXTT 30N50P		30	0.2	4150	70	400	0.27	460	X019	
IXTQ 30N50P		30	0.2	4150	70	400	0.27	460	X017a	
IXTH 36N50P		36	0.17	4700	82	400	0.23	540	X014a	
IXTT 36N50P		36	0.17	4700	82	400	0.23	540	X019	
IXTQ 36N50P	36	0.17	4700	82	400	0.23	540	X017a		
IXTQ 44N50P	44	0.14	5440	98	400	0.19	650	X017a		
IXTP 10N60P	600	10	0.74	1720	32	500	0.62	200	X005a	X011b TO-263AB 
IXTA 10N60P		10	0.74	1720	32	500	0.62	200	X011b	
IXTP 14N60P		14	0.55	2500	36	500	0.42	300	X005a	
IXTA 14N60P		14	0.55	2500	36	500	0.42	300	X011b	
IXTQ 14N60P		14	0.55	2500	36	500	0.42	300	X017a	
IXTQ 18N60P		18	0.42	2500	49	500	0.35	360	X017a	
IXTQ 22N60P		22	0.35	3600	62	500	0.31	400	X017a	
IXTH 26N60P		26	0.27	4150	72	500	0.27	460	X014a	
IXTT 26N60P		26	0.27	4150	72	500	0.27	460	X019	
IXTQ 26N60P		26	0.27	4150	72	500	0.27	460	X017a	
IXTH 30N60P		30	0.24	5050	82	500	0.23	540	X014a	
IXTT 30N60P		30	0.24	5050	82	500	0.23	540	X019	
IXTQ 30N60P		30	0.24	5050	82	500	0.23	540	X017a	
IXTP 05N100P		1000	0.5	30	196	8.1	750	2.5	50	
IXTA 05N100P	0.5		30	196	8.1	750	2.5	50	X011b	
IXTP 08N100P	0.8		20	240	11.3	750	3.0	42	X005a	
IXTY 08N100P	0.8		20	240	11.3	750	3.0	42	X004	
IXTA 08N100P	0.8		20	240	11.3	750	3.0	42	X011b	
IXTP 1N100P	1		15	331	15.5	750	2.5	50	X005a	
IXTY 1N100P	1		15	331	15.5	750	2.5	50	X004	
IXTA 1N100P	1		15	331	15.5	750	2.5	50	X011b	
IXTP 1R4N100P	1.4		11	450	17.8	750	2.0	63	X005a	
IXTY 1R4N100P	1.4		11	450	17.8	750	2.0	63	X004	
IXTA 1R4N100P	1.4		11	666	17.8	750	2.0	63	X011b	
IXTP 2N100P	2		7.5	655	24.3	800	1.45	86	X005a	
IXTY 2N100P	2		7.5	655	24.3	800	1.45	86	X004	
IXTA 2N100P	2		7.5	655	24.3	800	1.45	86	X011b	
IXTP 3N100P	3	4.8	1100	39	820	1.0	125	X005a		
IXTH 3N100P	3	4.8	1100	39	820	1.0	125	X014a		
IXTA 3N100P	3	4.8	1100	39	820	1.0	125	X011b		
IXTP 02N120P	1200	0.2	75	104	4.7	1600	3.8	33	X005a	X019 TO-268AA 
IXTY 02N120P		0.2	75	104	4.7	1600	3.8	33	X004	
IXTP 06N120P		0.6	34	236	13.3	900	3.0	42	X005a	
IXTA 06N120P		0.6	34	236	13.3	900	3.0	42	X011b	
IXTP 08N120P		0.8	25	333	14	900	2.5	50	X005a	
IXTA 08N120P		0.8	25	333	14	900	2.5	50	X011b	
IXTP 1N120P		1	20	445	17.6	900	2.0	63	X005a	
IXTA 1N120P		1	20	445	17.6	900	2.0	63	X011b	
IXTP 1R4N120P		1.4	13	666	24.8	900	1.45	86	X005a	
IXTA 1R4N120P		1.4	13	725	24.8	900	1.45	86	X011b	
IXTP 2R4N120P		2.4	7.5	1207	37	920	1.0	125	X005a	
IXTH 2R4N120P		2.4	7.5	1207	37	920	1.0	125	X014a	
IXTA 2R4N120P		2.4	7.5	1207	37	920	1.0	125	X011b	

Polar™ HiPerFETs with Fast Intrinsic Diode



Part Type	V _{oss} V	I _{D(on)} Chip T _C = 25°C A	R _{DS(on)} T _J = 25°C Ω	C _{iss} typ pF	Q _g typ nC	t _r typ ns	R _{thJC} K/W	P _D W	Fig. No.	Package style Outline drawings on pages O-31...O-52
IXFH 110N10P	100	110	0.015	3550	110	150	0.31	480	X014a	 TO-247AD
IXFR 200N10P		133	0.009	7600	235	150	0.5	300	X016a	
IXFH 140N10P		140	0.011	4700	155	150	0.25	600	X014a	
IXFT 140N10P		140	0.011	4700	155	150	0.25	600	X019	
IXFH 170N10P		170	0.009	6000	198	150	0.21	715	X014a	
IXFK 170N10P		170	0.009	6000	198	150	0.21	715	X020a	
IXFX 200N10P		200	0.0075	7600	235	150	0.18	830	X015a	
IXFN 200N10P		200	0.0075	7600	235	150	0.22	680	X027a	
IXFK 200N10P		200	0.0075	7600	235	150	0.18	830	X020a	
IXFX 250N10P		250	0.0065	16000	205	200	0.12	1250	X015a	
IXFK 250N10P		250	0.0065	16000	205	200	0.12	1250	X020a	 PLUS247
IXFN 300N10P		295	0.0055	23	279	200	0.14	1070	X027a	
IXFB 300N10P		300	0.0055	23	279	200	0.10	1500	X021a	
IXFH 96N15P	150	96	0.024	3500	110	200	0.31	480	X014a	
IXFR 180N15P		100	0.013	7000	240	200	0.5	300	X016a	
IXFH 120N15P		120	0.016	4900	150	200	0.25	600	X014a	
IXFT 120N15P		120	0.016	4900	150	200	0.25	600	X019	
IXFN 180N15P		150	0.011	7000	240	200	0.22	680	X027a	
IXFH 150N15P		150	0.013	5800	190	200	0.21	714	X014a	
IXFK 150N15P		150	0.013	5800	190	200	0.21	714	X020a	 ISOPLUS247™
IXFX 180N15P		180	0.011	7000	240	200	0.18	830	X015a	
IXFK 180N15P		180	0.011	7000	240	200	0.18	830	X020a	
IXFX 220N15P		220	0.009	15.4	162	200	0.12	1250	X015a	
IXFK 220N15P		220	0.009	15.4	162	200	0.12	1250	X020a	
IXFH 74N20P	200	74	0.034	3300	107	200	0.31	480	X014a	
IXFR 140N20P		90	0.022	7500	240	200	0.50	300	X016a	
IXFH 96N20P		96	0.024	4800	145	200	0.25	600	X014a	
IXFT 96N20P		96	0.024	4800	145	200	0.25	600	X019	
IXFN 140N20P		115	0.018	7500	240	200	0.22	680	X027a	
IXFH 120N20P		120	0.022	6000	152	200	0.21	714	X014a	 TO-264
IXFK 120N20P		120	0.022	6000	152	200	0.21	714	X020a	
IXFK 140N20P		140	0.018	7500	240	200	0.18	830	X020a	
IXFX 170N20P		170	0.014	11.4	185	200	0.12	1250	X015a	
IXFK 170N20P		170	0.014	11.4	185	200	0.12	1250	X020a	
IXFN 210N20P		188	0.0105	18.6	255	200	0.14	1070	X027a	
IXFB 210N20P		210	0.0105	18.6	255	200	0.10	1500	X021a	
IXFH 100N25P	250	100	0.027	6300	185	200	0.21	600	X014a	
IXFX 120N25P		120	0.024	8700	185	200	0.18	700	X015a	
IXFK 120N25P		120	0.024	8700	185	200	0.18	700	X020a	 PLUS264
IXFH 52N30P	300	52	0.066	3490	110	200	0.31	400	X014a	
IXFR 102N30P		60	0.036	7500	224	200	0.50	250	X016a	
IXFH 69N30P		69	0.049	4960	156	200	0.25	500	X014a	
IXFT 69N30P		69	0.049	4960	156	200	0.25	500	X019	
IXFR 140N30P		70	0.026	14800	185	200	0.35	360	X016a	
IXFN 102N30P		86	0.033	7500	224	200	0.22	570	X027a	
IXFH 88N30P		88	0.04	6300	180	200	0.21	600	X014a	
IXFK 88N30P		88	0.04	6300	180	200	0.21	600	X020a	
IXFT 88N30P		88	0.04	6300	180	200	0.21	600	X019	 SOT-227B miniBLOC
IXFK 102N30P		102	0.033	7500	224	200	0.18	700	X020a	
IXFN 140N30P		110	0.024	14800	185	200	0.18	700	X027a	
IXFN 170N30P		138	0.0018	20	258	200	0.14	890	X027a	
IXFX 140N30P		140	0.024	14800	185	200	0.12	1040	X015a	
IXFK 140N30P		140	0.024	14800	185	200	0.12	1040	X020a	
IXFB 170N30P		170	0.018	20	258	200	0.10	1250	X021a	

Polar™ HiPerFETs with Fast Intrinsic Diode



Part Type	V _{DS} V	I _{O(cont)} Chip T _C = 25°C A	R _{DS(on)} T _J = 25°C Ω	C _{iss} typ pF	Q _s typ nC	t _{rr} typ ns	R _{θJC} K/W	P _D W	Fig. No.	Package style Outline drawings on pages O-31...O-52
IXFP 12N50P	500	12	0.5	1830	29	200	0.62	200	X005a	TO-220AB
IXFA 12N50P		12	0.5	1830	29	200	0.62	200	X011b	
IXFP 16N50P		16	0.4	2480	43	200	0.42	300	X005a	
IXFH 16N50P		16	0.4	2480	43	200	0.42	300	X014a	
IXFA 16N50P		16	0.4	2480	43	200	0.42	300	X011b	
IXFR 36N50P		19	0.19	5500	93	200	0.75	156	X016a	
IXFH 22N50P		22	0.27	2880	50	200	0.35	350	X014a	
IXFR 44N50P		24	0.15	5440	98	200	0.6	208	X016a	
IXFH 26N50P		26	0.23	3600	60	200	0.31	400	X014a	
IXFH 30N50P		30	0.2	4150	70	200	0.27	460	X014a	
IXFT 30N50P		30	0.2	4150	70	200	0.27	460	X019	TO-247AD
IXFH 36N50P		36	0.17	5500	93	200	0.23	540	X014a	
IXFT 36N50P		36	0.17	5500	93	200	0.23	540	X019	
IXFR 64N50P		37	0.095	9700	150	200	0.42	300	X016a	
IXFH 44N50P		44	0.14	5440	98	200	0.19	650	X014a	
IXFK 44N50P		44	0.14	5440	98	200	0.19	650	X020a	
IXFT 44N50P		44	0.14	5440	98	200	0.19	650	X019	
IXFR 80N50P		45	0.072	12700	197	200	0.35	360	X016a	
IXFN 64N50P		50	0.085	9700	150	200	0.2	625	X027a	
IXFX 64N50P		64	0.085	9700	150	200	0.15	830	X015a	
IXFK 64N50P		64	0.085	9700	150	200	0.15	830	X020a	PLUS247
IXFN 80N50P		66	0.065	12700	195	200	0.18	700	X027a	
IXFL 100N50P		70	0.052	20000	240	200	0.2	625	X022a	
IXFX 80N50P		80	0.065	12700	197	200	0.12	1040	X015a	
IXFK 80N50P		80	0.065	12700	197	200	0.12	1040	X020a	
IXFN 100N50P		90	0.049	20000	240	200	0.12	1040	X027a	
IXFB 100N50P		100	0.049	20000	240	200	0.1	1250	X021a	
IXFP 10N60P	600	10	0.74	1720	32	200	0.62	200	X005a	TO-264
IXFA 10N60P		10	0.74	1720	32	200	0.62	200	X011b	
IXFP 14N60P		14	0.55	2500	36	200	0.42	300	X005a	
IXFH 14N60P		14	0.55	2500	36	200	0.42	300	X014a	
IXFA 14N60P		14	0.55	2500	36	200	0.42	300	X011b	
IXFR 30N60P		15	0.25	3820	85	200	0.75	166	X016a	
IXFH 18N60P		18	0.4	2500	50	200	0.35	360	X014a	
IXFR 36N60P		20	0.2	5800	102	200	0.6	208	X016a	
IXFH 22N60P		22	0.35	3600	58	200	0.31	400	X014a	
IXFH 26N60P		26	0.27	4150	72	200	0.27	460	X014a	
IXFT 26N60P		26	0.27	4150	72	200	0.27	460	X019	PLUS264
IXFH 30N60P		30	0.24	4000	82	200	0.25	500	X014a	
IXFT 30N60P		30	0.24	4000	82	200	0.25	500	X019	
IXFR 48N60P		32	0.15	8860	150	200	0.42	300	X016a	
IXFR 64N60P		36	0.105	12000	200	200	0.35	360	X016a	
IXFH 36N60P		36	0.19	5800	102	200	0.19	650	X014a	
IXFK 36N60P		36	0.19	5800	102	200	0.19	650	X020a	
IXFT 36N60P		36	0.19	5800	102	200	0.19	650	X019	
IXFN 48N60P		40	0.14	8860	150	200	0.2	625	X027a	
IXFX 48N60P		48	0.135	8860	150	200	0.15	830	X015a	
IXFK 48N60P		48	0.135	8860	150	200	0.15	830	X020a	SOT-227B miniBLOC
IXFN 64N60P		50	0.096	12000	200	200	0.18	700	X027a	
IXFL 82N60P		54	0.08	23000	240	200	0.2	625	X022a	
IXFX 64N60P		64	0.096	12000	200	200	0.12	1040	X015a	
IXFK 64N60P		64	0.096	12000	200	200	0.12	1040	X020a	
IXFB 82N60P		82	0.075	23000	240	200	0.1	1250	X021a	
IXFN 82N60P		82	0.75	23000	240	200	0.12	1040	X027a	

Polar™ HiPerFETs with Fast Intrinsic Diode



Part Type	V _{DS} V	I _{D(on)} Chip T _C = 25°C A	R _{DS(on)} T _J = 25°C Ω	C _{iss} typ pF	Q _g typ nC	t _r typ ns	R _{thJA} K/W	P _D W	Fig. No.	Package style Outline drawings on pages O-31...O-52
IXFP 7N80P	800	7	1.44	1800	32	250	0.62	200	X005a	TO-220AB
IXFA 7N80P		7	1.44	1800	32	250	0.62	200	X011b	
IXFR 20N80P		10	0.57	4685	86	250	0.8	160	X016a	
IXFP 10N80P		10	1.1	2050	40	250	0.42	300	X005a	TO-263AB
IXFH 10N80P		10	1.1	2050	40	250	0.42	300	X014a	
IXFA 10N80P		10	1.1	2050	40	250	0.42	300	X011b	
IXFQ 10N80P		10	1.1	2050	40	250	0.42	300	X017a	TO-247AD
IXFH 12N80P		12	0.85	2800	51	250	0.35	360	X014a	
IXFQ 12N80P		12	0.85	2800	51	250	0.35	360	X017a	
IXFR 24N80P		13	0.42	7200	105	250	0.6	208	X016a	PLUS247
IXFH 14N80P		14	0.72	3900	61	250	0.31	400	X014a	
IXFT 14N80P		14	0.72	3900	61	250	0.31	400	X019	
IXFQ 14N80P		14	0.72	3900	61	250	0.31	400	X017a	ISOPLUS247™
IXFH 16N80P		16	0.6	4000	70	250	0.27	460	X014a	
IXFT 16N80P		16	0.6	4000	70	250	0.27	460	X019	
IXFR 32N80P		20	0.29	8800	150	250	0.42	300	X016a	TO-268AA
IXFH 20N80P		20	0.52	4685	86	250	0.25	500	X014a	
IXFT 20N80P		20	0.52	4685	86	250	0.25	500	X019	
IXFH 24N80P		24	0.4	5800	100	250	0.19	650	X014a	TO-264
IXFK 24N80P		24	0.4	7200	105	250	0.19	650	X020a	
IXFT 24N80P		24	0.4	5800	100	250	0.19	650	X019	
IXFR 44N80P		26	0.19	12000	200	250	0.35	360	X016a	PLUS264
IXFN 32N80P		29	0.27	8820	150	250	0.2	625	X027a	
IXFX 32N80P		32	0.27	8800	150	250	0.15	830	X015a	
IXFK 32N80P		32	0.27	8800	150	250	0.15	830	X020a	ISOPLUS264™
IXFN 44N80P		36	0.19	12000	200	250	0.12	1200	X027a	
IXFL 60N80P		40	0.15	18000	250	250	0.2	625	X022a	
IXFX 44N80P		44	0.19	12000	198	250	0.12	1200	X015a	SOT-227B miniBLOC
IXFK 44N80P		44	0.19	12000	198	250	0.12	1200	X020a	
IXFN 60N80P		53	0.14	18000	250	250	0.12	1040	X027a	
IXFB 60N80P		60	0.14	18000	250	250	0.1	1250	X021a	SOT-227B miniBLOC
IXFR 18N90P	900	10.5	0.66	5230	97	300	0.62	200	X016a	
IXFH 12N90P		12	0.9	3080	56	300	0.33	380	X014a	
IXFR 24N90P		13	0.46	7200	130	300	0.54	230	X016a	SOT-227B miniBLOC
IXFH 18N90P		18	0.6	5230	97	300	0.23	540	X014a	
IXFT 18N90P		18	0.6	5230	97	300	0.23	540	X019	
IXFR 40N90P		21	0.23	14000	230	300	0.42	300	X016a	SOT-227B miniBLOC
IXFH 24N90P		24	0.42	7200	130	300	0.19	660	X014a	
IXFT 24N90P		24	0.42	7200	130	300	0.19	660	X019	
IXFK 32N90P		32	0.3	10600	215	300	0.13	960	X020a	SOT-227B miniBLOC
IXFX 32N90P		32	0.3	10600	215	300	0.13	960	X015a	
IXFN 40N90P		33	0.21	14000	230	300	0.18	695	X027a	
IXFX 40N90P		40	0.21	14000	230	300	0.13	960	X015a	SOT-227B miniBLOC
IXFK 40N90P		40	0.21	14000	230	300	0.13	960	X020a	
IXFN 52N90P		43	0.16	19000	308	300	0.14	890	X027a	
IXFB 52N90P		52	0.16	19000	308	300	0.1	1250	X021a	SOT-227B miniBLOC
IXFN 56N90P		56	0.145	23000	375	300	0.125	1000	X027a	

Polar™ HiPerFETs with Fast Intrinsic Diode



Part Type	V _{DS} V	I _{D(on)} Chip T _C = 25°C A	R _{DS(on)} T _C = 25°C Ω	C _{iss} typ pF	Q _s typ nC	t _{sw} typ ns	R _{thJC} K/W	P _D W	Fig. No.	Package style Outline drawings on pages O-31...O-52
IXFP 4N100P	1000	4	3.3	1456	26	300	0.83	150	X005a	 TO-220AB
IXFA 4N100P		4	3.3	1456	26	300	0.83	150	X011b	
IXFP 5N100P		5	2.8	1830	33.4	200	0.5	250	X005a	
IXFH 5N100P		5	2.8	1830	33.4	200	0.5	250	X014a	
IXFA 5N100P		5	2.8	1830	33.4	200	0.5	250	X011b	
IXFA 7N100P		7	1.9	2590	47	300	0.42	300	X011b	
IXFH 7N100P		7	1.9	2590	47	300	0.42	300	X014a	
IXFP 7N100P		7	1.9	2590	47	300	0.42	300	X005a	
IXFH 10N100P		10	1.4	3030	56	300	0.33	380	X014a	
IXFR 20N100P		11	0.64	7300	126	300	0.54	230	X016a	
IXFH 12N100P		12	1.05	4080	80	300	0.27	463	X014a	 TO-263AB
IXFR 26N100P		15	0.43	11900	197	300	0.43	290	X016a	
IXFH 15N100P		15	0.76	5140	97	300	0.23	543	X014a	
IXFR 32N100P		18	0.34	14200	225	300	0.39	320	X016a	
IXFH 20N100P		20	0.57	7300	126	300	0.19	660	X014a	
IXFT 20N100P		20	0.57	7300	126	300	0.19	660	X019	
IXFL 44N100P		22	0.24	19000	305	300	0.35	357	X022a	
IXFN 26N100P		23	0.39	11900	197	300	0.21	595	X027a	
IXFX 26N100P		26	0.39	11900	197	300	0.16	780	X015a	
IXFK 26N100P		26	0.39	11900	197	300	0.16	780	X020a	
IXFN 32N100P		27	0.32	14200	225	300	0.18	690	X027a	 PLUS247
IXFL 38N100P		29	0.23	24000	350	300	0.24	520	X022e	
IXFX 32N100P		32	0.32	14200	225	300	0.13	960	X015a	
IXFK 32N100P		32	0.32	14200	225	300	0.13	960	X020a	
IXFN 44N100P		37	0.22	19000	305	300	0.14	890	X027a	
IXFN 38N100P		38	0.21	24000	350	300	0.125	1000	X027a	
IXFB 44N100P		44	0.22	19000	305	300	0.1	1250	X021a	
IXFL 40N110P	1100	21	0.28	19000	310	300	0.35	357	X022a	
IXFL 36N110P		26	0.26	23000	350	300	0.24	520	X022a	
IXFN 40N110P		34	0.26	19000	310	300	0.14	890	X027a	
IXFB 40N110P		40	0.26	19000	310	300	0.1	1250	X021a	
IXFP 6N120P	1200	6	2.4	2830	92	300	0.5	250	X005a	 TO-264
IXFH 6N120P		6	2.4	2830	92	300	0.5	250	X014a	
IXFA 6N120P		6	2.4	2830	92	300	0.5	250	X011b	
IXFR 16N120P		9	1.04	6900	120	300	0.54	230	X016a	
IXFH 12N120P		12	1.35	5400	103	300	0.23	543	X014a	
IXFR 20N120P		13	0.63	12900	193	300	0.43	290	X016a	
IXFR 26N120P		15	0.5	14000	225	300	0.39	320	X016a	
IXFH 16N120P		16	0.95	6900	120	300	0.19	660	X014a	
IXFT 16N120P		16	0.95	6900	120	300	0.19	660	X019	
IXFL 30N120P		18	0.38	19000	310	300	0.35	357	X022a	
IXFX 20N120P		20	0.57	11100	193	300	0.16	780	X015a	 ISOPLUS264™
IXFN 20N120P		20	0.57	11100	193	300	0.21	595	X027a	
IXFK 20N120P		20	0.57	11100	193	300	0.16	780	X020a	
IXFN 26N120P		23	0.46	14000	225	300	0.18	695	X027a	
IXFL 32N120P		24	0.34	21000	360	300	0.24	520	X022e	
IXFX 26N120P		26	0.46	14000	225	300	0.13	960	X015a	
IXFK 26N120P		26	0.46	14000	225	300	0.13	960	X020a	
IXFB 30N120P		30	0.35	22500	310	300	0.1	1250	X021a	
IXFN 30N120P		30	0.35	19000	310	300	0.14	890	X027a	
IXFN 32N120P		32	0.31	21000	360	300	0.125	1000	X027a	

Polar™ HiPerFETs™ with Fast Intrinsic Diode



Part Type	V _{DS}	I _{DS(on)} Chip T _C = 25°C	R _{DS(on)} T _J = 25°C	C _{iss} typ	Q _s typ	t _v typ	R _{thJC}	P _D	Fig. No.	Package style Outline drawings on pages O-31...O-54
IXFP 12N50P	500	12	0.500	1830	29	200	0.62	200	X005a	TO-220AB
IXFA 12N50P		12	0.500	1830	29	200	0.62	200	X011b	
IXFP 16N50P		16	0.400	2480	43	200	0.42	300	X005a	
IXFH 16N50P		16	0.400	2480	43	200	0.42	300	X014a	
IXFA 16N50P		16	0.400	2480	43	200	0.42	300	X011b	
IXFR 36N50P		19	0.190	5500	93	200	0.75	156	X016a	TO-263AB
IXFH 22N50P		22	0.270	2880	50	200	0.35	350	X014a	
IXFR 44N50P		24	0.150	5440	98	200	0.60	208	X016a	TO-247AD
IXFH 26N50P		26	0.230	3600	60	200	0.31	400	X014a	
IXFH 30N50P		30	0.200	4150	70	200	0.27	460	X014a	
IXFT 30N50P		30	0.200	4150	70	200	0.27	460	X019	
IXFH 36N50P		36	0.170	5500	93	200	0.23	540	X014a	
IXFT 36N50P		36	0.170	5500	93	200	0.23	540	X019	PLUS247
IXFR 64N50P		37	0.095	9700	150	200	0.42	300	X016a	
IXFH 44N50P		44	0.140	5440	98	200	0.19	650	X014a	
IXFK 44N50P		44	0.140	5440	98	200	0.19	650	X020a	
IXFT 44N50P		44	0.140	5440	98	200	0.19	650	X019	
IXFR 80N50P		45	0.072	12700	197	200	0.35	360	X016a	ISOPLUS247™
IXFN 64N50P		50	0.085	9700	150	200	0.20	625	X027a	
IXFX 64N50P		64	0.085	9700	150	200	0.15	830	X015a	
IXFK 64N50P		64	0.085	9700	150	200	0.15	830	X020a	
IXFN 80N50P		66	0.065	12700	195	200	0.18	700	X027a	
IXFL 100N50P		70	0.052	20000	240	200	0.20	625	X022a	TO-268AA
IXFX 80N50P		80	0.065	12700	197	200	0.12	1040	X015a	
IXFK 80N50P		80	0.065	12700	197	200	0.12	1040	X020a	
IXFN 100N50P		90	0.049	20000	240	200	0.12	1040	X027a	
IXFB 100N50P		100	0.049	20000	240	200	0.10	1250	X021a	
IXFP 10N60P	600	10	0.740	1720	32	200	0.62	200	X005a	TO-264
IXFA 10N60P		10	0.740	1720	32	200	0.62	200	X011b	
IXFP 14N60P		14	0.550	2500	36	200	0.42	300	X005a	
IXFH 14N60P		14	0.550	2500	36	200	0.42	300	X014a	
IXFA 14N60P		14	0.550	2500	36	200	0.42	300	X011b	
IXFR 30N60P		15	0.250	3820	85	200	0.75	166	X016a	PLUS264
IXFH 18N60P		18	0.400	2500	50	200	0.35	360	X014a	
IXFR 36N60P		20	0.200	5800	102	200	0.60	208	X016a	
IXFH 22N60P		22	0.350	3600	58	200	0.31	400	X014a	
IXFH 26N60P		26	0.270	4150	72	200	0.27	460	X014a	
IXFT 26N60P		26	0.270	4150	72	200	0.27	460	X019	ISOPLUS264™
IXFH 30N60P		30	0.240	4000	82	200	0.25	500	X014a	
IXFT 30N60P		30	0.240	4000	82	200	0.25	500	X019	
IXFR 48N60P		32	0.150	8860	150	200	0.42	300	X016a	
IXFR 64N60P		36	0.105	12000	200	200	0.35	360	X016a	
IXFH 36N60P		36	0.190	5800	102	200	0.19	650	X014a	SOT-227B miniBLOC
IXFK 36N60P		36	0.190	5800	102	200	0.19	650	X020a	
IXFT 36N60P		36	0.190	5800	102	200	0.19	650	X019	
IXFN 48N60P		40	0.140	8860	150	200	0.20	625	X027a	
IXFX 48N60P		48	0.135	8860	150	200	0.15	830	X015a	
IXFK 48N60P		48	0.135	8860	150	200	0.15	830	X020a	
IXFN 64N60P		50	0.096	12000	200	200	0.18	700	X027a	
IXFL 82N60P		54	0.080	23000	240	200	0.20	625	X022a	
IXFX 64N60P		64	0.096	12000	200	200	0.12	1040	X015a	
IXFK 64N60P		64	0.096	12000	200	200	0.12	1040	X020a	
IXFB 82N60P		82	0.075	23000	240	200	0.10	1250	X021a	
IXFN 82N60P		82	0.750	23000	240	200	0.12	1040	X027a	

Polar™ HiPerFETs™ with Fast Intrinsic Diode



Part Type	V _{DS}	I _{DS(on)} Chip T _C = 25°C	R _{DS(on)} T _J = 25°C	C _{iss} typ	Q _s typ	t _r typ	R _{θJC}	P _D	Fig. No.	Package style Outline drawings on pages O-31...O-54
IXFP 7N80P	800	7	1.44	1800	32	250	0.62	200	X005a	TO-220AB
IXFA 7N80P		7	1.44	1800	32	250	0.62	200	X011b	
IXFR 20N80P		10	0.57	4685	86	250	0.80	160	X016a	
IXFP 10N80P		10	1.10	2050	40	250	0.42	300	X005a	TO-263AB
IXFH 10N80P		10	1.10	2050	40	250	0.42	300	X014a	
IXFA 10N80P		10	1.10	2050	40	250	0.42	300	X011b	
IXFQ 10N80P		10	1.10	2050	40	250	0.42	300	X017a	TO-247AD
IXFH 12N80P		12	0.85	2800	51	250	0.35	360	X014a	
IXFQ 12N80P		12	0.85	2800	51	250	0.35	360	X017a	
IXFR 24N80P		13	0.42	7200	105	250	0.60	208	X016a	PLUS247
IXFH 14N80P		14	0.72	3900	61	250	0.31	400	X014a	
IXFT 14N80P		14	0.72	3900	61	250	0.31	400	X019	
IXFQ 14N80P		14	0.72	3900	61	250	0.31	400	X017a	ISOPLUS247™
IXFH 16N80P		16	0.60	4000	70	250	0.27	460	X014a	
IXFT 16N80P		16	0.60	4000	70	250	0.27	460	X019	
IXFR 32N80P		20	0.29	8800	150	250	0.42	300	X016a	TO-3P
IXFH 20N80P		20	0.52	4685	86	250	0.25	500	X014a	
IXFT 20N80P		20	0.52	4685	86	250	0.25	500	X019	
IXFH 24N80P		24	0.40	5800	100	250	0.19	650	X014a	TO-268AA
IXFK 24N80P		24	0.40	7200	105	250	0.19	650	X020a	
IXFT 24N80P		24	0.40	5800	100	250	0.19	650	X019	
IXFR 44N80P		26	0.19	12000	200	250	0.35	360	X016a	TO-264
IXFN 32N80P		29	0.27	8820	150	250	0.20	625	X027a	
IXFX 32N80P		32	0.27	8800	150	250	0.15	830	X015a	
IXFK 32N80P		32	0.27	8800	150	250	0.15	830	X020a	PLUS264
IXFN 44N80P		36	0.19	12000	200	250	0.12	1200	X027a	
IXFL 60N80P		40	0.15	18000	250	250	0.20	625	X022a	
IXFX 44N80P		44	0.19	12000	198	250	0.12	1200	X015a	ISOPLUS264™
IXFK 44N80P		44	0.19	12000	198	250	0.12	1200	X020a	
IXFN 60N80P		53	0.14	18000	250	250	0.12	1040	X027a	
IXFB 60N80P		60	0.14	18000	250	250	0.10	1250	X021a	SOT-227B miniBLOC
IXFR 18N90P	900	10.5	0.66	5230	97	300	0.62	200	X016a	
IXFH 12N90P		12	0.90	3080	56	300	0.33	380	X014a	PLUS264
IXFR 24N90P		13	0.46	7200	130	300	0.54	230	X016a	
IXFH 18N90P		18	0.60	5230	97	300	0.23	540	X014a	
IXFT 18N90P		18	0.60	5230	97	300	0.23	540	X019	ISOPLUS264™
IXFR 40N90P		21	0.23	14000	230	300	0.42	300	X016a	
IXFH 24N90P		24	0.42	7200	130	300	0.19	660	X014a	SOT-227B miniBLOC
IXFT 24N90P		24	0.42	7200	130	300	0.19	660	X019	
IXFK 32N90P		32	0.30	10600	215	300	0.13	960	X020a	
IXFX 32N90P		32	0.30	10600	215	300	0.13	960	X015a	SOT-227B miniBLOC
IXFN 40N90P		33	0.21	14000	230	300	0.18	695	X027a	
IXFX 40N90P		40	0.21	14000	230	300	0.13	960	X015a	
IXFK 40N90P		40	0.21	14000	230	300	0.13	960	X020a	SOT-227B miniBLOC
IXFN 52N90P		43	0.16	19000	308	300	0.14	890	X027a	
IXFB 52N90P		52	0.16	19000	308	300	0.10	1250	X021a	
IXFN 56N90P		56	0.145	23000	375	300	0.125	1000	X027a	

Polar™ HiPerFETs™ with Fast Intrinsic Diode



Part Type	V _{DS} V	I _{D(on)} Chip T _C = 25°C A	R _{DS(on)} T _J = 25°C Ω	C _{iss} typ pF	Q _s typ nC	t _r typ ns	R _{thJC} K/W	P _D W	Fig. No.	Package style Outline drawings on pages O-31...O-54
IXFP 4N100P	1000	4	3.30	1456	26	300	0.83	150	X005a	 TO-220AB
IXFA 4N100P		4	3.30	1456	26	300	0.83	150	X011b	
IXFP 5N100P		5	2.80	1830	33.4	200	0.50	250	X005a	
IXFH 5N100P		5	2.80	1830	33.4	200	0.50	250	X014a	
IXFA 5N100P		5	2.80	1830	33.4	200	0.50	250	X011b	
IXFA 7N100P		7	1.90	2590	47	300	0.42	300	X011b	
IXFH 7N100P		7	1.90	2590	47	300	0.42	300	X014a	
IXFP 7N100P		7	1.90	2590	47	300	0.42	300	X005a	
IXFH 10N100P		10	1.40	3030	56	300	0.33	380	X014a	
IXFR 20N100P		11	0.64	7300	126	300	0.54	230	X016a	
IXFH 12N100P		12	1.05	4080	80	300	0.27	463	X014a	 TO-263AB
IXFR 26N100P		15	0.43	11900	197	300	0.43	290	X016a	
IXFH 15N100P		15	0.76	5140	97	300	0.23	543	X014a	
IXFR 32N100P		18	0.34	14200	225	300	0.39	320	X016a	
IXFH 20N100P		20	0.57	7300	126	300	0.19	660	X014a	
IXFT 20N100P		20	0.57	7300	126	300	0.19	660	X019	
IXFL 44N100P		22	0.24	19000	305	300	0.35	357	X022a	
IXFN 26N100P		23	0.39	11900	197	300	0.21	595	X027a	
IXFX 26N100P		26	0.39	11900	197	300	0.16	780	X015a	
IXFK 26N100P		26	0.39	11900	197	300	0.16	780	X020a	
IXFN 32N100P		27	0.32	14200	225	300	0.18	690	X027a	 PLUS247
IXFL 38N100P		29	0.23	24000	350	300	0.24	520	X022e	
IXFX 32N100P		32	0.32	14200	225	300	0.13	960	X015a	
IXFK 32N100P		32	0.32	14200	225	300	0.13	960	X020a	
IXFN 44N100P		37	0.22	19000	305	300	0.14	890	X027a	
IXFN 38N100P		38	0.21	24000	350	300	0.125	1000	X027a	
IXFB 44N100P		44	0.22	19000	305	300	0.10	1250	X021a	
IXFL 40N110P	1100	21	0.28	19000	310	300	0.35	357	X022a	
IXFL 36N110P		26	0.26	23000	350	300	0.24	520	X022a	
IXFN 40N110P		34	0.26	19000	310	300	0.14	890	X027a	
IXFB 40N110P		40	0.26	19000	310	300	0.10	1250	X021a	
IXFP 6N120P	1200	6	2.40	2830	92	300	0.50	250	X005a	 PLUS264
IXFH 6N120P		6	2.40	2830	92	300	0.50	250	X014a	
IXFA 6N120P		6	2.40	2830	92	300	0.50	250	X011b	
IXFR 16N120P		9	1.04	6900	120	300	0.54	230	X016a	
IXFH 12N120P		12	1.35	5400	103	300	0.23	543	X014a	
IXFR 20N120P		13	0.63	12900	193	300	0.43	290	X016a	
IXFR 26N120P		15	0.50	14000	225	300	0.39	320	X016a	
IXFH 16N120P		16	0.95	6900	120	300	0.19	660	X014a	
IXFT 16N120P		16	0.95	6900	120	300	0.19	660	X019	
IXFL 30N120P		18	0.38	19000	310	300	0.35	357	X022a	
IXFX 20N120P		20	0.57	11100	193	300	0.16	780	X015a	 ISOPLUS264™
IXFN 20N120P		20	0.57	11100	193	300	0.21	595	X027a	
IXFK 20N120P		20	0.57	11100	193	300	0.16	780	X020a	
IXFN 26N120P		23	0.46	14000	225	300	0.18	695	X027a	
IXFL 32N120P		24	0.34	21000	360	300	0.24	520	X022e	
IXFX 26N120P		26	0.46	14000	225	300	0.13	960	X015a	
IXFK 26N120P		26	0.46	14000	225	300	0.13	960	X020a	
IXFB 30N120P		30	0.35	22500	310	300	0.10	1250	X021a	
IXFN 30N120P		30	0.35	19000	310	300	0.14	890	X027a	
IXFN 32N120P		32	0.31	21000	360	300	0.125	1000	X027a	