

# IXYS Power Devices and Power Modules

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## ENERGY EFFICIENT HIGH-POWER IGBTs

### 600V XPT™ IGBTs

MOUSER STOCK NO.		Package Style	IC (A)	Power (W)	Price Each		
Mfr.	Mfr. Part No.				1	10	100
747	—IXXH50N60C3	TO-247AD	100	600	7.68	6.47	5.46
747	—IXXH50N60C3D1	TO-247AD	100	600	9.94	8.37	7.07
747	—IXXK100N60C3H1	TO-264	170	695	19.78	16.60	15.64
747	—IXXK100N60B3H1	TO-264	190	695	19.78	16.60	15.64
747	—IXXH100N60C3	TO-247AD	190	830	12.62	10.59	9.98
747	—IXXH100N60B3	TO-247AD	210	830	11.03	9.25	8.72

### 650V XPT™ Trench IGBTs

MOUSER STOCK NO.		Package Style	IC (A)	Power (W)	Price Each		
Mfr.	Mfr. Part No.				1	10	100
747	—IXYP15N65C3D1M	TO-220-3	16	48	2.97	2.36	1.92
747	—IXYP20N65C3D1M	TO-220-3	18	50	2.97	2.40	1.92
747	—IXYH30N65C3H1	TO-247-3	60	270	5.87	4.95	4.17
747	—IXYT30N65C3H1HV	TO-268HV-2	60	270	6.65	5.60	4.73
747	—IXXH30N65B4	TO-247AD-3	65	230	4.26	3.39	2.76
747	—IXYH40N65C3H1	TO-247-3	80	300	6.65	5.60	4.73
747	—IXYH40N65C3	TO-247-3	80	300	6.11	5.14	4.34
747	—IXXH60N65B4H1	TO-247AD-3	116	380	7.52	6.33	5.34
747	—IXXH60N65B4	TO-247AD-3	116	455	6.21	4.94	4.02
747	—IXXH60N65C4	TO-247AD-3	118	455	6.21	4.94	4.02
747	—IXXH40N65B4	TO-247AD-3	120	455	4.99	3.97	3.23
747	—IXYH50N65C3	TO-247-3	130	600	5.80	4.62	3.76
747	—IXY A50N65C3	TO-263-2	130	600	6.21	4.94	4.02
747	—IXYH50N65C3H1	TO-247-3	130	600	6.21	4.94	4.02
747	—IXYP50N65C3	TO-220-3	130	600	6.02	4.79	3.90
747	—IXXR110N65B4H1	ISOPLUS 247-3	150	455	12.21	10.24	9.65
747	—IXXH80N65B4	TO-247AD-3	160	625	6.06	5.10	4.31
747	—IXXH80N65B4H1	TO-247AD-3	160	625	8.22	6.93	5.85
747	—IXYN100N65C3H1	SOT-227B-4	166	600	23.76	19.79	18.59
747	—IXYH75N65C3	TO-247-3	170	750	6.58	5.54	4.68
747	—IXYH75N65C3H1	TO-247-3	170	750	11.61	9.74	9.18
747	—IXYH100N65C3	TO-247-3	200	830	7.94	6.69	5.65
747	—IXXN110N65C4H1	SOT-227B-4	210	750	22.53	18.77	17.63
747	—IXXN110N65B4H1	SOT-227	215	750	22.53	18.77	17.63
747	—IXXH110N65C4	TO-247AD-3	234	880	7.28	6.13	5.18
747	—IXXK110N65B4H1	TO-264-3	240	880	11.24	9.43	8.89
747	—IXXK110N65B4H1	PLUS 247-3	240	880	10.81	9.07	8.55
747	—IXXK160N65C4	TO-264-3	290	940	13.71	11.51	10.84
747	—IXXK160N65C4	PLUS 247-3	290	940	13.39	11.24	10.59
747	—IXXK160N65B4	TO-264-3	310	940	13.71	11.51	10.84
747	—IXXK160N65B4	PLUS 247-3	310	940	13.39	11.24	10.59
747	—IXXK200N65B4	TO-264-3	370	1150	17.52	14.70	13.85
747	—IXXK200N65B4	PLUS247-3	370	1150	17.26	14.48	13.65

### 1200V XPT™ IGBTs

MOUSER STOCK NO.		Package Style	IC (A)	Power (W)	Price Each		
Mfr.	Mfr. Part No.				1	10	100
747	—IXA12IF1200HB	TO-247-3	20	85	5.07	4.04	3.29
747	—IXA12IF1200PB	TO-220-3	20	85	4.45	3.54	2.88
747	—IXYJ20N120C3D1	TO-247-3	21	105	11.46	9.61	9.06
747	—IXA17IF1200HJ	ISOPLUS 247-3	28	100	7.12	6.00	5.06
747	—IXA20I1200PB	TO-220-3	33	130	4.75	3.78	3.08
747	—IXA20IF1200HB	TO-247-3	38	165	6.48	5.46	4.61
747	—IXYP20N120C3	TO-220-3	40	278	4.94	3.93	3.20
747	—IXA27IF1200HJ	ISOPLUS 247-3	43	150	8.60	7.24	6.11
747	—IXA30PG1200DHGB	ISOPLUS-9	43	150	18.44	15.48	14.58
747	—IXA37IF1200HJ	ISOPLUS 247-3	58	195	10.43	8.79	7.42
747	—IXYH40N120C3D1	TO-247-AD-3	64	480	11.11	9.36	7.90
747	—IXYP30N120C3	TO-220-3	66	416	6.51	5.48	4.63
747	—IXYH30N120C3	TO-247-3	66	416	7.92	6.67	5.63
747	—IXYH30N120C3D1	TO-247-AD-3	66	416	10.41	8.77	7.40
747	—IXYH40N120C3	TO-247-AD-3	70	577	8.69	7.32	6.18
747	—IXA45IF1200HB	TO-247-3	78	325	10.31	8.69	7.33
747	—IXA55I1200HJ	ISOPLUS 247-3	84	290	13.69	11.49	10.83
747	—IXA60IF1200NA	SOT-227B-4	88	290	26.15	21.79	20.47
747	—IXYH50N120C3D1	TO-247-AD-3	90	625	7.42	6.25	5.28
747	—IXA70I1200NA	SOT-227B-4	100	350	22.07	18.39	17.28
747	—IXYR150N120C3	ISOPLUS 247-3	104	484	19.86	16.54	15.54
747	—IXYN82N120C3H1	SOT-227	105	500	37.62	31.34	29.44
747	—IXYH50N120C3	TO-247	105	625	11.23	9.46	7.99
747	—IXYN82N120C3	SOT-227B-4	120	600	30.09	25.07	23.55
747	—IXYN100N120C3	SOT-227B-4	152	830	34.19	28.49	26.76
747	—IXYB82N120C3H1	PLUS-264	160	1040	21.12	17.60	16.53
747	—IXYH82N120C3	TO-247	160	1040	13.76	11.54	10.88
747	—IXYX100N120C3	PLUS-247-3	188	1150	19.28	16.18	15.25

## ENERGY EFFICIENT HIGH-POWER IGBTs (CONT.)

### 1600-1700V IGBT Bimosfet™

MOUSER STOCK NO.		Package Style	IC (A)	Power (W)	Price Each		
Mfr.	Mfr. Part No.				1	10	100
747	—IXBH40N160	TO-247AD	33	350	22.75	18.95	17.80
747	—IXBH16N170A	TO-247AD	16	150	12.16	10.21	9.62
747	—IXBT16N170A	TO-268	16	150	12.79	10.73	10.11
747	—IXBH16N170	TO-247AD	25	360	11.80	9.90	9.33
747	—IXBH42N170A	TO-247AD	42	357	20.89	17.40	16.35
747	—IXBH42N170	TO-247AD	70	150	20.29	16.91	15.88
747	—IXBT42N170	TO-268	80	360	21.34	17.78	16.70

## THYRISTOR MODULE

MOUSER STOCK NO.		Package Style	VRRM (V)	IRMS (A)	Price Each		
Mfr.	Mfr. Part No.				1	10	100
747	—MCC44-18101B	TO-240AA	1800	80	31.20	26.00	24.42

## PHASE CONTROL THYRISTORS

- Features:**
- Vrrm: 800V to 2200V
  - Phase leg (FCC\_) and high voltage (CS\_M\_) types in ISOPLUS i4-PAC as well as TO-208 and TO-64 case styles available
  - Single configuration

\*Phase Leg Configuration

MOUSER STOCK NO.		Package Style	VRRM (V)	IRMS (A)	Price Each		
Mfr.	Mfr. Part No.				1	10	100
747	—CS35-0810A	TO-208AC	800	63	39.38	32.81	30.82
*	747—DSEE30-12A	TO-247AD	1200	30	9.07	7.64	6.45
747	—CS35-1210A	TO-208AC	1200	63	38.63	34.45	31.31
747	—CS35-1410A	TO-208AC	1400	63	40.48	36.10	32.81
747	—CS23-16102	TO-208AA	1600	25	30.25	25.21	23.68

## HiPERFET™ POWER MOSFETS WITH FAST INTRINSIC DIODES

- Specifications:**
- Single configuration

MOUSER STOCK NO.		Package Style	VDSS (V)	ID (A)	Price Each		
Mfr.	Mfr. Part No.				1	10	100
747	—IXFH70N20Q3	TO-247	200	70	9.71	8.18	6.91
747	—IXFT70N20Q3	TO-268	200	70	10.96	9.24	7.80
747	—IXFH50N30Q3	TO-247	300	50	9.71	8.18	6.91
747	—IXFH70N30Q3	TO-247	300	70	13.93	11.69	11.01
747	—IXFT70N30Q3	TO-268	300	70	15.39	12.92	12.17
747	—IXFR44N50Q3	ISOPLUS-247	500	25	17.63	14.79	13.94
747	—IXF30N50Q3	TO-247	500	30	9.71	8.18	6.91
747	—IXFH30N50Q3	TO-268	500	30	10.96	9.24	7.80
747	—IXFH44N50Q3	TO-247	500	44	13.93	11.69	11.01
747	—IXFR64N50Q3	ISOPLUS-247	500	45	21.38	17.81	16.73
747	—IXFR80N50Q3	ISOPLUS-247	500	50	24.29	20.23	19.01
747	—IXFT22N80Q3	SOT-227	500	63	38.54	32.11	30.17
747	—IXFX64N50Q3	PLUS-247	500	64	20.46	17.17	16.18
747	—IXFX80N50Q3	PLUS-247	500	80	22.11	18.42	17.30
747	—IXFN100N50Q3	SOT-227	500	82	43.17	38.49	34.99
747	—IXFB100N50Q3	PLUS-264	500	100	30.75	25.62	24.07
747	—IXFR44N60	ISOPLUS-247	600	38	20.02	16.68	15.67
747	—IXFR64N60Q3	ISOPLUS-247	600	42	28.04	23.36	21.94
747	—IXFN82N60Q3	SOT-227	600	66	43.17	38.49	34.99
747	—IXFB82N60Q3	PLUS-264	600	82	30.75	25.62	24.07
747	—IXFR80N80Q3	ISOPLUS-247	800	24	23.92	19.93	18.72
747	—IXFK32N80Q3	TO-264	800	32	20.64	17.32	16.32
747	—IXFK44N80Q3	TO-264	800	44	29.14	24.28	22.81
747	—IXFN62N80Q3	SOT-227	800	49	43.17	38.49	34.99
747	—IXFB62N80Q3	PLUS-264	800	62	30.75	25.62	24.07
747	—IXFR15N100Q3	ISOPLUS-247	1000	10	15.13	12.70	11.96
747	—IXFH15N100Q3	TO-247	1000	15	11.52	9.67	9.11
747	—IXFT15N100Q3	TO-268	1000	15	12.90	10.82	10.20
747	—IXFH18N100Q3	TO-247	1000	18	13.93	11.69	11.01
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