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IGBTMOD™ TRANSISTOR POWER MODULES (Continued)

Major Ratings and Characteristics at $T_C = 25^\circ\text{C}$ (T_J Maximum = 150°C)

MAXIMUM RATINGS						ELECTRICAL CHARACTERISTICS						
						Static				Dynamic		
Type	V_{CES} Volts	I_C Amperes	I_{CM} Amperes	P_D Watts	V_{RMS} Isolation Volts	Test Conditions		Typ. $V_{CE(SAT)}$ Volts	Max. $V_{CE(SAT)}$ Volts	$V_{GE} = 0V, V_{CE} = 10V, f = 1\text{mHz}$		
						I_C Amperes	V_{GE} Volts			C_{ies} pf	C_{oes} pf	C_{res} pf

Dual IGBTMOD™ Transistor Power Modules

ID2260A2	600	25	50	150	2500	25	15	3.2	5	2500	600	60
ID221KA2	1000	25	50	250	2500	25	15	3.5	5	5000	1200	120
ID2212A2	1200	25	50	250	2500	25	15	3.5	5	5000	1200	120
ID226005	600	50	100	250	2500	50	15	3.0	5	5000	1200	120
ID221K05	1000	50	100	400	2500	50	15	3.5	5	11000	2700	270
ID221205	1200	50	100	400	2500	50	15	3.5	5	11000	2700	270
CM50DY-28	1400	50	100	780	2500	50	15	—	5	33000	8300	830
ID226075	600	75	150	310	2500	75	15	3.0	5	8300	2000	200
ID221K75	1000	75	150	600	2500	75	15	3.2	5	22000	5400	540
ID221275	1200	75	150	600	2500	75	15	3.2	5	22000	5400	540
ID226010	600	100	200	400	2500	100	15	3	5	11000	2700	270
ID221K10	1000	100	200	780	2500	100	15	3.5	5	22000	5400	540
ID221210	1200	100	200	780	2500	100	15	3.5	5	22000	5400	540
CM100DY-28	1400	100	200	1100	2500	100	15	—	5	33000	8300	830
ID226015	600	150	300	600	2500	150	15	3.0	5	17000	4000	400
ID121K15	1000	150	300	1100	2500	150	15	3.5	5	33000	8300	830
ID121215	1200	150	300	1100	2500	150	15	3.5	5	33000	8300	830
ID226020	600	200	400	780	2500	200	15	3.0	5	22000	5400	540
ID121K20	1000	200	400	1500	2500	200	15	3.5	5	44000	11000	1100
ID121220	1200	200	400	1500	2500	200	15	3.5	5	44000	11000	1100
ID126030	600	300	600	1100	2500	300	15	3.0	5	33000	8100	810
ID121K30	1000	300	600	2100	2500	300	15	3.5	5	66000	17000	1700
ID121230	1200	300	600	2100	2500	300	15	3.5	5	66000	17000	1700
ID126040*	600	400	800	1500	2500	400	15	3.0	5	44000	11000	1100

* Under Development

Six-IGBTMOD™ Transistor Power Modules

IEF260A1	600	15	30	100	2500	15	15	3.0	5	1500	400	40
IEF21KA1	1000	15	30	150	2500	15	15	3.8	5	2500	600	60
IEF212A1	1200	15	30	150	2500	15	15	3.8	5	2500	600	60
IEF260A2	600	25	50	150	2500	25	15	3.0	5	2500	600	60
IEF21KA2	1000	25	50	250	2500	25	15	3.5	5	5000	1200	120
IEF212A2	1200	25	50	250	2500	25	15	3.5	5	5000	1200	120
IEF26005	600	50	100	250	2500	50	15	3.0	5	5000	1200	120
IET21K05	1000	50	100	400	2500	50	15	3.5	5	11000	2700	270
IET21205	1200	50	100	400	2500	50	15	3.5	5	11000	2700	270
IET26075	600	75	150	310	2500	75	15	2.8	5	8300	2000	200
IET26010	600	100	200	400	2500	100	15	3	5	11000	2700	270

				FREE WHEEL DIODE			THERMAL AND MECHANICAL CHARACTERISTICS					
							Interface Per Module	IGBT	Diodes	Weight	Outline Drawings	
Resistive Load Switching Times				I_{FM} Amperes	V_{FM} Volts	t_{rr} ns	$R_{\theta CS}$ °C/W	$R_{\theta JC}$ °C/W	$R_{\theta JC}$ °C/W	Grams	Number	Page
$t_{d(on)}$ ns	t_r ns	$t_{d(off)}$ ns	t_f ns									
250	700	600	800	25	2.5	200	0.15	0.8	2	190	118	73
250	700	600	1000	25	2.5	300	0.15	0.5	1.4	190	118	73
250	700	600	1000	25	2.5	300	0.15	0.5	1.4	190	118	73
250	700	600	800	50	2.5	200	0.15	0.5	1	190	118	73
250	700	600	1000	50	2.5	300	0.15	0.31	0.7	190	118	73
250	700	600	1000	50	2.5	300	0.15	0.31	0.7	190	118	73
—	—	—	—	100	2.8	300	0.07	0.11	0.24	500	119	73
250	800	600	800	75	2.5	200	0.15	0.4	0.9	190	119	73
800	700	800	1000	75	2.5	300	0.13	0.21	0.47	270	119	73
800	700	800	1000	75	2.5	300	0.13	0.21	0.47	270	119	73
250	800	600	800	100	2.5	200	0.15	0.31	0.7	190	118	73
800	700	800	1000	100	2.5	300	0.13	0.16	0.35	270	119	73
800	700	800	1000	100	2.5	300	0.13	0.16	0.35	270	119	73
—	—	—	—	100	2.8	300	0.07	0.11	0.24	500	120	73
250	800	600	800	150	2.5	200	0.13	0.21	0.47	270	119	73
800	700	800	1000	150	2.5	300	0.07	0.11	0.24	500	120	73
800	700	800	1000	150	2.5	300	0.07	0.11	0.24	500	120	73
800	800	700	800	200	2.5	200	0.13	0.16	0.35	270	119	73
1300	800	800	1000	200	2.5	300	0.07	0.085	0.18	500	120	73
1300	800	800	1000	200	2.5	300	0.07	0.085	0.18	500	120	73
1100	800	800	800	300	2.5	200	0.09	0.11	0.24	400	121	74
1300	800	800	1000	300	2.5	300	—	0.06	0.12	—	—	—
1300	800	800	1000	300	2.5	300	—	0.06	0.12	—	—	—
—	—	—	—	400	2.5	200	0.09	0.085	0.18	580	—	—

250	700	600	800	15	2.5	200	0.55	1.3	3.5	150	125	75
250	700	600	1000	15	2.5	300	0.35	0.8	1.4	260	122	74
250	700	600	1000	15	2.5	300	0.35	0.8	1.4	260	122	74
250	700	600	800	25	2.5	200	0.35	0.8	2	260	122	74
250	700	600	1000	25	2.5	300	0.25	0.5	1.4	390	123	74
250	700	600	1000	25	2.5	300	0.25	0.5	1.4	390	123	74
250	700	600	800	50	2.5	200	0.25	0.5	1	390	123	74
250	700	600	1000	50	2.5	300	0.2	0.31	0.7	540	124	75
250	700	600	1000	50	2.5	300	0.2	0.31	0.7	540	124	75
250	800	600	800	75	2.5	200	0.2	0.4	0.9	540	124	75
250	800	600	800	100	2.5	200	0.2	0.31	0.7	540	124	75