

**Insulated Gate Bipolar Transistors (IGBTs) - continued**

**Fast Switching - continued**

Mfrs. List No.	Order Code	Price Each			
		1+	25+	100+	250+
IRG4BC30FD	934-380▲	270.00	225.00	202.00	174.00
IRG4BC40F	934-410▲	255.00	--	--	--
IRG4IBC30FDPBF	NEW 865-0462●	348.00	250.00	191.00	164.00
IRG4PC30F	934-422▲	179.00	--	--	--
IRG4PC30FPBF	NEW 865-0497●	280.00	201.00	154.00	132.00
IRG4PC40F	934-460▲	251.00	208.00	177.00	--
IRG4PC40FD	934-471▲	395.00	329.00	288.00	--
IRG4PC40FDPBF	NEW 865-0527●	575.00	412.00	312.00	271.00
IRG4PC50F	934-501▲	405.00	337.00	295.00	--
IRG4PC50FD	934-513▲	640.00	532.00	462.00	--
IRG4PC60FPBF	NEW 865-9494●	967.00	674.00	525.00	455.00
IRG4PC60F-PPBF	NEW 865-9508●	967.00	674.00	525.00	455.00
IRG4RC20F	394-1218▲	105.00	54.00	--	--

**Ultrafast Switching**

V <sub>CEO</sub> V	I <sub>C cont</sub> @ 25°C A	V <sub>CE(sat)</sub> max. V	I <sub>C</sub> pulsed A	t <sub>r</sub> typ. ns	t <sub>f</sub> max. (*typ.) ns	P <sub>D</sub> @ 25°C W	Package	Mfrs. List No.
<b>Ultra-Fast Switching</b>								
600	8.5	2.6	34	11	180	38	TO-252 (D-Pak)	IRG4RC10U
600	13	2.4	52	13	120	60	TO-220 (SOT-78B)	IRG4BC20U
600	23	2.5	92	9.6	97	100	TO-220 (SOT-78B)	IRG4BC30U
600	23	2.5	92	9.6	97	100	TO-247	IRG4PC30U
600	85	2.0	200	50	130	350	Super-247	IRG4PSC71U
1200	30	3.5	120	18	190	160	TO-247	IRG4PH40U
1200	45	3.7	180	15	500	200	TO-247	IRG4PH50U
1200	78	3.9	156	38	250	350	Super-247	IRG4PSH71U
<b>Ultra-fast Switching, with Integral Soft-Recovery Diode</b>								
600	11.4	1.85	52	17	220	34	TO-220 Fullpak	IRG4IBC20UD
600	13	2.4	52	15	110	60	TO-220 (SOT-78B)	IRG4BC20UD
600	17	1.95	92	21	180	45	TO-220 Fullpak	IRG4IBC30UD
600	23	2.5	92	21	80	100	TO-220 (SOT-78B)	IRG4BC30UD
600	23	2.5	92	21	80	100	TO-247	IRG4PC30UD
600	55	2.0	220	25	110	200	TO-247	IRG4PC50UD
600	55	2.0	220	25	110	200	TO-247	IRG4PC50UD-E
600	85	2.0	200	94	167	350	Super-247	IRG4PSC71UD
1200	30	3.5	120	59	150	160	TO-247	IRG4PH40UD
1200	45	3.7	180	24	260	200	TO-247	IRG4PH50UD



Mfrs. List No.	Order Code	Price Each			
		1+	25+	100+	250+
IRG4PH50UPBF	NEW 865-0730●	801.00	575.00	435.00	377.00
IRG4PSC71U	393-9534▲	1,052.00	743.00	--	--
IRG4PSC71UD	394-1176▲	1,390.00	970.00	787.00	737.00
IRG4PSC71UDPBF	NEW 865-0764●	1,390.00	970.00	740.00	655.00
IRG4PSC71UPBF	NEW 865-0772●	1,027.00	717.00	592.00	544.00
IRG4RC10U	393-9571▲	114.00	68.00	60.00	--
IRG4RC10UPBF	NEW SMD 865-0810●	109.00	78.00	60.00	51.00
IRGPS40B120UPBF	NEW 865-9680●	1,028.00	717.00	558.00	484.00
IRGS14C40LPBF	SMD 910-4895●	199.00	143.00	109.00	94.00

**Ultrafast Switching, 10µs Short-Circuit Rated**



V <sub>CEO</sub> V	I <sub>C cont</sub> @ 25°C A	V <sub>CE(sat)</sub> max. V	I <sub>C</sub> pulsed A	t <sub>r</sub> typ. ns	t <sub>f</sub> max. (*typ.) ns	P <sub>D</sub> 25°C W	Package	Mfrs. List No.
<b>Ultra-Fast Switching</b>								
600	9	2.62	18	24	290	38	TO-252 (D-Pak)	IRG4RC10K
600	9	2.39	18	24	190	38	TO-220 (SOT-78B)	IRG4BC10K
600	9	2.62	18	24	38	38	TO-220AB	IRG4BC10KPBF
600	13	1.8	26	17	18	90	TO-220AB	IRGB6B60K
600	13	1.8	26	17	18	90	TO-220AB	IRGB6B60KPBF
600	12	2.5	24	18	80	63	TO-220AB	IRGB4B60KPBF
600	16	2.8	32	27	150	60	TO-263 (D2-Pak)	IRG4BC20K-S
600	16	2.8	32	27	38	38	D2-Pak	IRG4BC20K-SPBF
600	13	2.2	56	21	27	167	TO-263 (D2-Pak)	IRGS6B60K
600	28	2.2	56	21	56	167	TO-220AB	IRGB8B60KPBF
600	28	2.2	56	21	56	167	TO-220AB	IRGB8B60K
600	28	2.2	56	21	42	167	TO-263 (D2-Pak)	IRGS8B60K
600	28	2.7	58	28	170	100	TO-263 (D2-Pak)	IRG4BC30K-S
600	28	2.7	58	28	100	100	TO-247AC	IRG4PC30KPBF
600	42	2.1	84	18	*150	160	TO-220 (SOT-78B)	IRG4BC40K
600	42	2.1	84	18	210	160	TO-220 (SOT-78B)	IRG4BC40KPBF
600	42	2.6	84	15	160	160	TO-247AC	IRG4PC40KPBF
600	52	1.84	104	34	120	200	TO-247	IRG4PC50K
600	52	1.84	104	34	120	200	TO-247AC	IRG4PC50KPBF
600	78	2.35	120	28	40	370	TO-220AB	IRGB30B60KPBF
600	78	2.95	120	28	370	370	D2-Pak	IRGS30B60KPBF
600	85	2.3	200	54	133	350	Super-247	IRG4PSC71K
600	85	2.3	200	54	133	350	Super-247	IRG4PSC71KPBF
1200	11	3.17	22	28	620	60	TO-247AC	IRG4PH20KPBF
1200	30	2.74	60	22	230	160	TO-247AC	IRG4PH40KPBF
1200	11	3.17	22	28	620	60	TO-247	IRG4PH20K
1200	11	3.17	22	30	620	60	TO-247	IRG4PH20KDPBF
1200	20	3.1	40	23	170	100	TO-247	IRG4PH30K
1200	20	3.1	40	23	170	100	TO-247	IRG4PH30KPBF
1200	30	3.4	60	31	330	160	TO-247	IRG4PH40KDPBF
1200	30	2.74	60	22	230	160	TO-247	IRG4PH40K
1200	45	2.77	90	29	280	200	TO-247	IRG4PH50K
1200	45	2.77	90	29	280	200	TO-247	IRG4PH50KPBF
1200	78	3.9	42	38	250	350	Super-247	IRG4PSH71K
1200	78	3.9	42	38	250	350	Super-247	IRG4PSH71KPBF
<b>Ultra-Fast Switching, with Integral Soft-Recovery Diode</b>								
600	7.8	2.4	15.6	15	80	52	TO-252 (D-Pak)	IRGR3B60KD2PBF
600	9	2.39	18	32	310	38	TO-220 (SOT-78B)	IRG4BC10KDPBF
600	9	2.62	18	28	210	38	TO-252 (D-Pak)	IRG4RC10KDPBF
600	9	2.39	18	32	310	38	TO-220 (SOT-78B)	IRG4BC10KD
600	9	2.62	18	24	290	38	TO-252 (D-Pak)	IRG4RC10KPBF
600	9	2.2	22	17	22	32	TO-220 Fullpak	IRGB6B60KDPBF
600	11.5	2.8	23	37	*160	34	TO-220 Fullpak	IRG4BC20KD
600	16	2.8	32	37	*160	60	TO-263 (D2-Pak)	IRG4BC20KD-SPBF
600	12	2.5	22	18	80	63	TO-220 Fullpak	IRGB4B60KD1PBF
600	12	2.2	24	22	42	39	TO-220 Fullpak	IRGB7B60KDPBF
600	13	2	26	17	22	90	TO-220AB	IRGB6B60KDPBF
600	13	2	26	17	22	90	D2-Pak	IRGS6B60KDPBF
600	16	2.8	32	37	*160	60	TO-220 (SOT-78B)	IRG4BC20KD-S
600	17	2.7	34	42	120	45	TO-220 Fullpak	IRG4BC30KDPBF
600	28	2.21	58	42	100	100	TO-263 (D2-Pak)	IRG4BC30KD-SPBF
600	22	2.2	44	20	32	104	TO-220AB	IRGB10B60KDPBF
600	28	2.21	58	42	120	100	TO-220 (SOT-78B)	IRG4BC30KDPBF
600	28	2.21	58	42	120	100	TO-220 (SOT-78B)	IRG4BC30KD
600	28	2.21	58	42	*160	100	TO-263 (D2-Pak)	IRG4BC30KD-S
600	31	2.2	62	16	26	139	TO-220AB	IRGB15B60KDPBF
600	42	2.1	84	37	150	160	TO-247AC	IRG4PC40KDPBF
600	42	2.1	84	37	*140	160	TO-247	IRG4PC40K
600	52	1.84	104	49	140	104	TO-247AC	IRG4PC50KDPBF
600	52	1.84	104	49	140	104	TO-247	IRG4PC50KD
600	85	2.3	200	107	146	350	Super-247	IRG4PSC71KD
600	85	2.3	200	107	146	350	Super-247	IRG4PSC71KDPBF
1200	11	3.17	22	30	620	60	TO-247	IRG4PH20KD
1200	20	3.1	40	79	*97	100	TO-247	IRG4PH30KD
1200	20	3.1	40	79	*97	100	TO-247	IRG4PH30KDPBF
1200	30	3.4	60	31	330	160	TO-247	IRG4PH40KD
1200	45	2.77	90	100	300	200	TO-247	IRG4PH50KD
1200	45	2.77	90	100	300	200	TO-247AC	IRG4PH50KDPBF
1200	78	3.9	42	84	190	350	Super-247	IRG4PSH71KD
1200	78	3.9	42	84	190	350	Super-247	IRG4PSH71KDPBF

Mfrs. List No.	Order Code	Price Each			
		1+	25+	100+	250+
IRG4BC10K	315-7120▲	118.00	85.00	--	--
IRG4BC10KPBF	107-8428●	124.00	89.00	68.00	58.00
IRG4BC10KD	315-7143▲	133.00	97.00	--	--
IRG4BC10KDPBF	865-0314●	157.00	112.00	91.00	83.00
IRG4BC20KD-S	SMD 369-4501▲	225.00	161.00	131.00	119.00
IRG4BC20KD-SPBF	SMD 910-4984●	225.00	161.00	123.00	106.00
IRG4BC20K-S	SMD 393-9509▲	140.00	108.00	--	--
IRG4BC20K-SPBF	107-8432●	158.00	114.00	87.00	75.00
IRG4BC30KD	162-504▲	183.00	152.00	129.00	--

Semiconductors - Discretes

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Prices are in Thai Baht and exclude 7% VAT. Due to the volatile nature of certain products, prices are subject to change without notice.