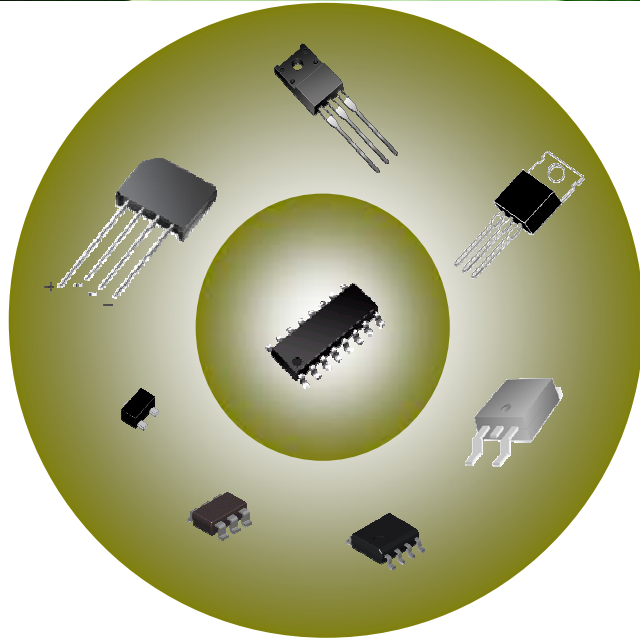


First & Best



KEC Power SBDs







2007. 09

<http://www.kec.co.kr>

■ PW SBD Line Up

Under Development



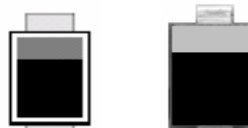


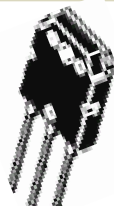
Mass Production

Category			SBD							
PKG	Picture	Io \ Vrrm	30V	40V	45V	50V	60V	100V	150V	200V
SMF		1A	SMFB13	SMFB14						
		1.5A	SMFB23	SMFB24						
SMA		1A	SMAB13	SMAB14		SMAB15	SMAB16	SMAB110		
		2A						SMAB210		
		3A	SMAB33	SMAB34			SMAB36			
SMB		2A		SMBB24			SMBB26			
SMC		3A		SMCB34			SMCB36			
TO-220IS-2		5A			B5A45VI		B5A60VI	B5A100VI		
		10A			B10A45VI					
TO-220IS		5A			B5A45VIC		B5A60VIC			
		10A			B10A45VIC		B10A60VIC	B10A100VIC	B10A150VIC	B10A200VIC
		15A			B15A45VIC		B15A60VIC			
		20A			B20A45VIC		B20A60VIC	B20A100VIC	B20A200VIC	
		30A			B30A45VIC			B30A100VIC		

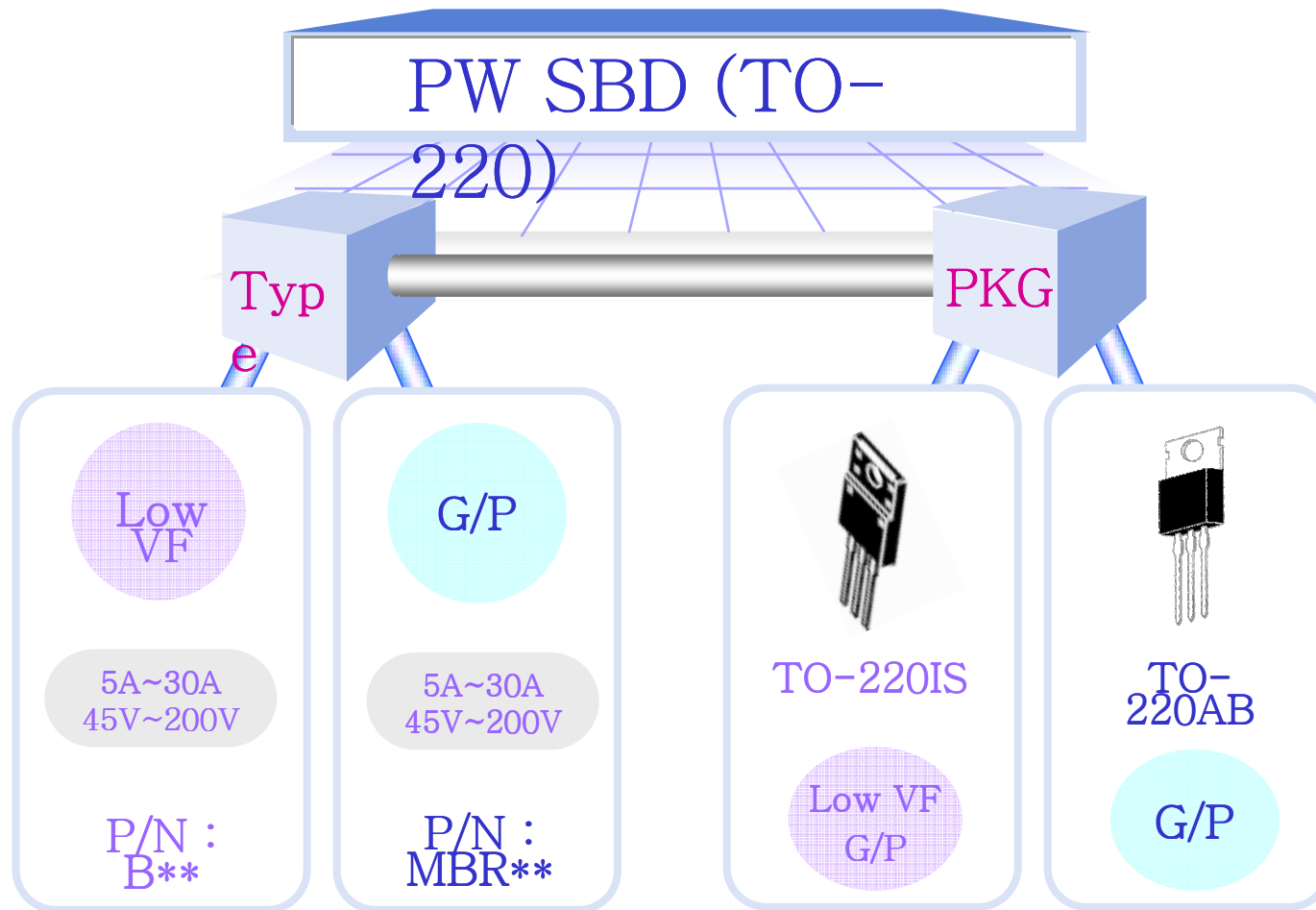
Item Plan

Package	2006	2007	2008	2009
SMD	Low V_F		Low I_R	
Lead (TO-220/TO-3PN)	200V/10,20A	60,100V/35A 45V/40A	250V/10,20A 45,60,100V/40,50,60A	$T_j=175^\circ\text{C}$ PW SBD

Package Plan



Package	2006	2007	2008	2009
SMD	 USF SMF SMA	 SMB SMC	 MSF LSF	
Lead (TO-220/TO-3PN)	 TO-220IS	 TO-220AB	 TO-3PN	

■ Power SBD (TO-220)





* G/P : General Purpose
P/N : Part Number

■ Power SBD Low V_F Type. (PKG. : TO-220IS)

Part No.		Max. Ratings			VFM (V)		IRRM (mA) (VRRM = Rated)	trr(ns)			Rth(c-f) (°C/W)
		VRRM (V)	I _o (A)	IFSM (A)	MAX. (TC=25°C)	IFM (A)	Max.	Max.	IF (A)	di/dt(A/uS)	Max.
B5A45VI		45	5	100	0.55	5	0.5	35	1	-20	4.5
B5A60VI		60	5	100	0.55	5	0.5	35	1	-20	4.5
B5A100VI		100	5	100	0.80	5	3	35	1	-20	4.5
B10A45VI		45	10	150	0.58	10	0.5	35	1	-20	3
B5A45VIC		45	5	70	0.55	2.5	0.5	35	1	-20	4
B5A60VIC		60	5	70	0.55	2.5	0.5	35	1	-20	4
B10A45VIC		45	10	100	0.55	5	0.5	35	1	-30	4
B10A60VIC		60	10	100	0.58	5	0.5	35	1	-30	4
B10A100VIC		100	10	100	0.80	5	3	35	1	-30	3.5
B10A150VIC		150	10	130	0.85	5	0.3	-	-	-	3
B10A200VIC		200	10	100	0.85	5	0.3	-	-	-	3
B15A45VIC		45	15	150	0.58	7.5	0.5	35	1	-50	4
B15A60VIC		60	15	150	0.58	7.5	0.5	35	1	-30	4
B20A45VIC		45	20	250	0.58	10	2	35	1	-50	3.5
B20A60VIC		60	20	250	0.58	10	2	35	1	-30	3.5
B20A100VIC		100	20	250	0.85	10	0.15	35	1	-30	3.5
B20A200VIC		200	20	120	0.9	10	0.3	-	-	-	3
B30A45VIC		45	30	350	0.6	15	3	35	1	-50	2.5
B30A100VIC		100	30	350	0.85	15	1.0	-	-	-	2.5

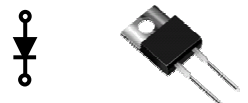

■ MBRF Series [PKG. : TO-220IS]**

I_o						
50A						
40A						
35A						
30A		MBRF3045CT ◀		MBRF30100CT ◀		
20A		MBRF2045CT ◀	MBRF2060CT ◀	MBRF20100CT ◀	MBRF20150CT ◀	MBRF20200CT ◀
15A		MBRF1545CT ◀	MBRF1560CT ◀			
10A		MBRF1045 ◀ MBRF1045CT ◀	MBRF1060CT ◀	MBRF10100 ◀ MBRF10100CT ◀	MBRF10150CT ◀	MBRF10200CT ◀
5A		MBRF545 ◀ MBRF545CT ◀	MBRF560 ◀ MBRF560CT ◀	MBRF5100 ◀		
3A						
2A						
1A						
Voltage	40V	45V	60V	100V	150V	200V

Description		
◀ : TO-220IS-2Pin	<ul style="list-style-type: none"> • Full Molded Plastic Package. • Single Schottky Rectifier 	
◀◀ : TO-220IS-3Pin	<ul style="list-style-type: none"> • Full Molded Plastic Package. • Dual Schottky Rectifier 	

■ MBR Series [PKG. : TO-220AB]**

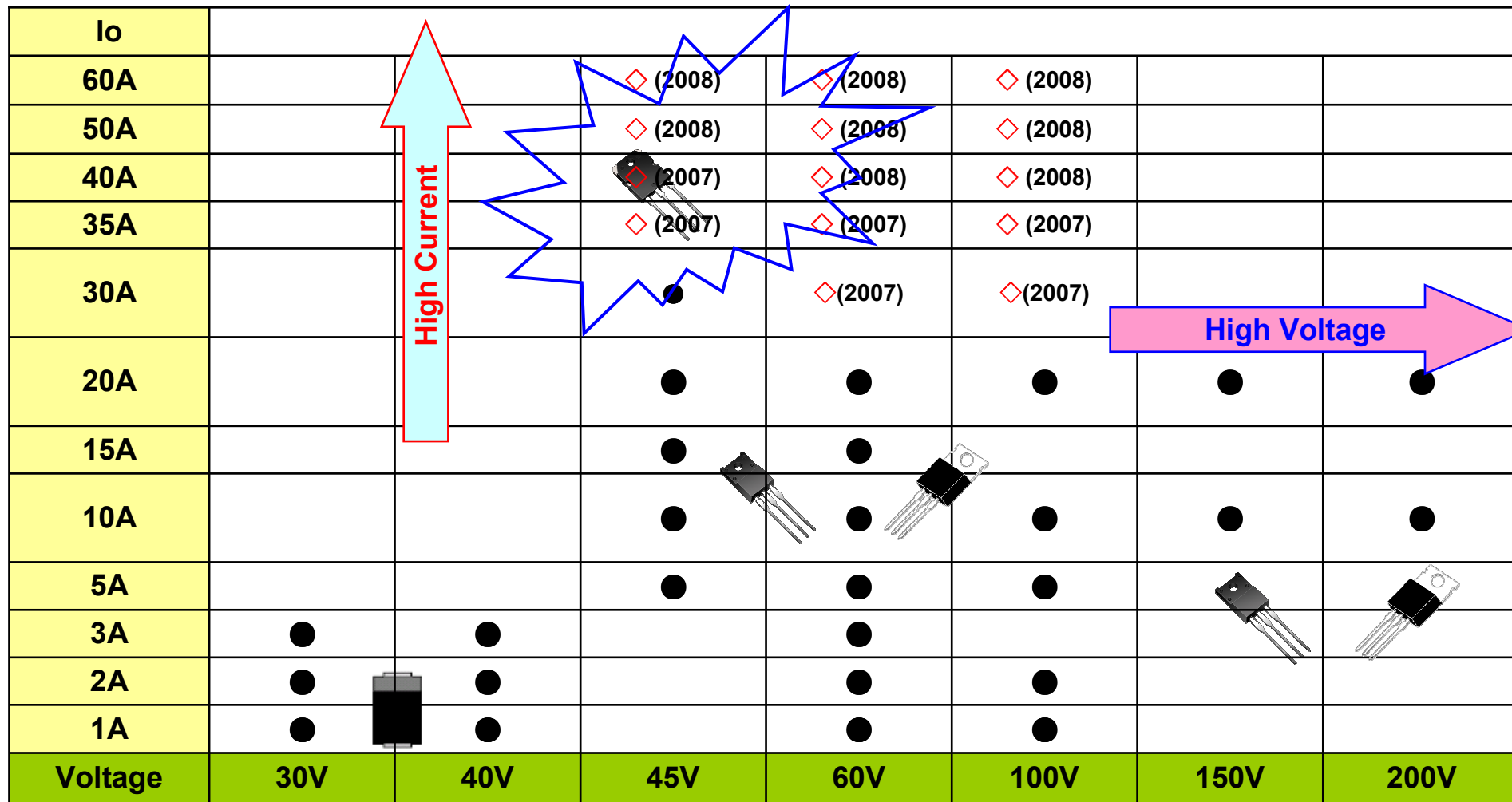
I_o						
50A						
40A						
35A						
30A		MBR3045CT ◀		MBR30100CT ◀		
20A		MBR2045CT ◀	MBR2060CT ◀	MBR20100CT ◀	MBR20150CT ◀	MBR20200CT ◀
15A		MBR1545CT ◀	MBR1560CT ◀			
10A		MBR1045 ▶ MBR1045CT ◀	MBR1060CT ◀	MBR10100 ▶ MBR10100CT ◀	MBR10150CT ◀	MBR10200CT ◀
5A		MBR545 ▶ MBR545CT ◀	MBR560 ▶ MBR560CT ◀	MBR5100 ▶		
3A						
2A						
1A						
Voltage	40V	45V	60V	100V	150V	200V

Description		
▶ : TO-220AB-2Pin	<ul style="list-style-type: none"> Molded Plastic Package. Single Schottky Rectifier 	
◀ : TO-220AB-3Pin	<ul style="list-style-type: none"> Molded Plastic Package. Dual Schottky Rectifier 	

SBD Line-up Plan

Power SBD Line-up Plan

● : Product ◇ : Development plan



★ Low VF Type : Advantage of thermal efficiency , GP Type : Low Price

Category			LOW VF Type			GP Type			
Type	Max Ratings		TO-220IS	VFM (V)		TO-220IS	TO-220AB	VFM (V)	
	VRRM (V)	IO (A)	P/N	Max (Tc=25°C)	IFM (A)	P/N		Max (Tc=25°C)	IFM (A)
Single	45	5	B5A45VI	0.55	5	MBRF545	MBR545	0.70	5
Single	60	5	B5A60VI	0.55	5	MBRF560	MBR560	0.75	5
Single	100	5	B5A100VI	0.80	5	MBRF5100	MBR5100	0.85	5
Single	45	10	B10A45VI	0.58	10	MBRF1045	MBR1045	0.70	10
CC	45	5	B5A45VIC	0.55	2.5	MBRF545CT	MBR545CT	0.70	2.5
CC	60	5	B5A60VIC	0.55	2.5	MBRF560CT	MBR560CT	0.75	2.5
CC	45	10	B10A45VIC	0.55	5	MBRF1045CT	MBR1045CT	0.70	5
CC	60	10	B10A60VIC	0.58	5	MBRF1060CT	MBR1060CT	0.75	5
CC	100	10	B10A100VIC	0.78	5	MBRF10100CT	MBR10100CT	0.85	5
CC	45	15	B15A45VIC	0.58	7.5	MBRF1545CT	MBR1545CT	0.70	7.5
CC	60	15	B15A60VIC	0.58	7.5	MBRF1560CT	MBR1560CT	0.75	7.5
CC	45	20	B20A45VIC	0.58	10	MBRF2045CT	MBR2045CT	0.70	10
CC	60	20	B20A60VIC	0.58	10	MBRF2060CT	MBR2060CT	0.75	10
CC	100	20	B20A100VIC	0.85	10	MBRF20100CT	MBR20100CT	0.85	10
CC	45	30	B30A45VIC	0.60	15	MBRF3045CT	MBR3045CT	0.70	15
CC	100	30	B30A100VIC	0.85	15	MBRF30100CT	MBR30100CT	0.85	15
CC	150	10	B10A150VIC	0.85	5	MBRF10150CT	MBR10150CT	0.90	5
CC	150	20	B20A150VIC	0.85	10	MBRF20150CT	MBR20150CT	0.90	10
CC	200	10	B10A200VIC	0.85	5	MBRF10200CT	MBR10200CT	0.95	5
CC	200	20	B20A200VIC	0.90	10	MBRF20200CT	MBR20200CT	0.95	10



<http://www.kec.co.kr>