

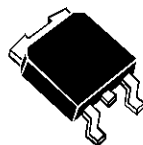
ULTRAFAST RECTIFIERS



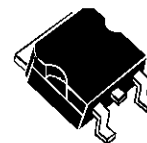
SMB



SMC



DPAK



D2PAK

SURFACE MOUNT ULTRAFAST RECTIFIERS

$T_J (\text{max}) = 150^\circ\text{C}$							
Device	I_O (A)	V_{RRM} (V)	V_F @ rated I_O (V)	I_R @ rated V_{RRM} (mA)	t_{RR} (ns)	I_{FSM} (A)	Package
SMBYW01-200	1	200	0.71	4.0	35	60	SMB
SMBYT01-400	1	400	1.40	0.5	60	30	
SMBYW02-200	2	200	0.85	0.5	35	50	
SMBYT03-400	3	400	1.40	0.5	60	60	SMC
SMBYW04-200	4	200	0.85	0.5	35	70	
BYT3400B	3	400	1.40	0.5	25	60	DPAK
BYW4200B	4	200	0.85	0.5	35	70	
STPR1020CB	2x5	200	0.85	0.5	35	70	DPAK
BYW29G-200	8	200	0.85	0.6	35	80	D2PAK
BYW77G-200	25	200	0.85	0.5	50	500	
STPR1020CG	2x5	200	0.99	0.5	30	50	D2PAK (Dual diode)
STPR1620CG	2x8	200	0.99	0.6	30	80	
BYW51G-200	2x10	200	0.85	1.0	35	100	

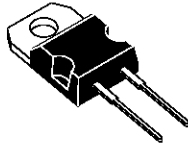
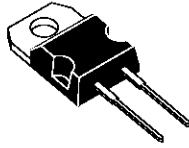
V_F and I_R rated per diode, at $T_J=125^\circ\text{C}$ except for BYT series, rated at $T_J=100^\circ\text{C}$



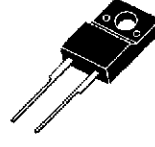
F126



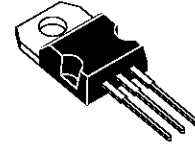
DO-201AD

TO220AC
(isolated)

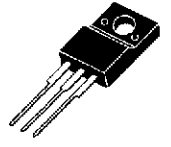
TO220AC



ISOWATT220AC



TO220AB



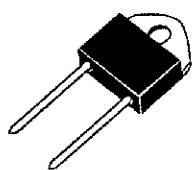
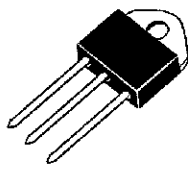
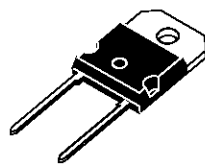
ISOWATT220AB

AXIAL LEAD AND TO220 TYPE ULTRAFAST RECTIFIERS

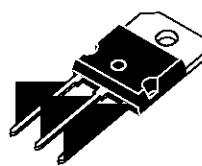
$T_J (\text{max}) = 150^\circ\text{C}$							
Device	I_o (A)	V_{RRM} (V)	V_F @ rated I_o (V)	I_R @ rated V_{RRM} (mA)	t_{RR} (ns)	I_{FSM} (A)	Package
BYT01-400 BYW100-200 STSR220 STPR320	1 1.5 2 3	400 200 200 200	1.40 0.85 0.80 0.99	0.5 0.5 0.5 0.5	55 35 35 30	30 50 70 30	F126
BYW98-200 BYT03-400	3 3	200 400	0.85 1.40	0.5 0.5	35 55	70 60	DO-201AD
STPR520D STPR820D BYW29-200 BYT08P-400 BYW80-200 STPR1220D STPR1520D BYW81P-200	5 8 8 8 10 12 15 15	200 200 200 400 200 200 200 200	0.99 0.99 0.85 1.40 0.85 0.99 0.99 0.85	0.5 0.6 0.6 2.5 1.0 0.8 1.0 1.5	30 30 35 35 35 30 30 40	50 80 80 100 100 120 150 200	TO220AC
* BYT08PI-400 * BYW80PI-200 * BYW81PI-200	8 10 15	400 200 200	1.40 0.85 0.85	2.5 1.0 1.5	35 35 40	100 100 200	TO220AC isolated
* STPR520F * STPR820F * BYW29F-200 * BYW80F-200 * STPR1220F	5 8 8 10 12	200 200 200 200 200	0.99 0.99 0.85 0.85 0.99	0.5 0.6 0.6 1.0 0.8	30 30 35 35 30	50 80 80 100 120	ISOWATT220AC
STPR620CT STPR1020CT STPR1620CT BYT16P-400 STPR2020CT BYW51-200 STPR2420CT	2x3 2x5 2x8 2x8 2x10 2x10 2x12	200 200 200 400 200 200 200	0.99 0.99 0.99 1.40 0.99 0.85 0.99	0.5 0.5 0.6 2.5 1.0 1.0 0.8	30 30 30 75 30 35 30	30 50 80 100 100 100 120	TO220AB (Dual diode)
* STPR620CF * STPR1020CF * BYW51F-200	2x3 2x5 2x10	200 200 200	0.99 0.99 0.85	0.5 0.5 1.0	30 30 35	30 50 100	ISOWATT220AB (Dual diode)

V_F and I_R rated per diode, at $T_J = 125^\circ\text{C}$, except for BYT Series, rated at 100°

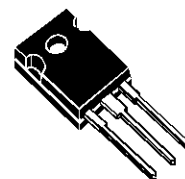
* : 2500V isolation ; UL recognized file # E81734.

DOP3I
(isolated)TOP3I
(isolated)

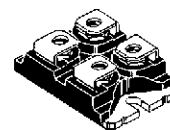
TO218



TO218AC



TO247



ISOTOP

TO218, TOP3 and ISOTOP™ TYPE ULTRAFAST RECTIFIERS

T_J (max) = 150°C							
Device	I_O (A)	V_{RRM} (V)	V_F @ rated I_O (V)	I_R @ rated V_{RRM} (mA)	t_{RR} (ns)	I_{FSM} (A)	Package
* BYW77PI-200	25	200	0.85	2.5	50	500	DOP3
* BYW99PI-200	2x15	200	0.85	2.5	35	200	TOP3
* BYT30PI-400	2x12.5	400	1.00	0.8	30	120	
* BYV52PI-200	2x30	200	0.85	2.5	40	500	
BYW77P-200	25	200	0.85	2.5	35	500	TO218
BYT30P-400	30	400	1.40	6	50	350	
BYT60P-400	60	400	1.40	10	50	550	
BYW99P-200	2x15	200	0.85	1.5	40	200	TO218AC
BYV52-200	2x30	200	0.85	2.5	50	500	
♦ STPR2520CW	2x12.5	200	1.00	0.8	30	120	TO247
BYW99W-200	2x15	200	0.85	2.5	40	200	
* BYT230PIV-400(1)	2x30	400	1.40	6	50	350	ISOTOP
* BYT231PIV-400(2)	2x30	400	1.40	6	50	350	
* BYV54V-200(1)	2x50	200	0.85	5	60	1000	
* BYV541V-200(2)	2x50	200	0.85	5	60	1000	
* BYT260PIV-400(1)	2x60	400	1.40	6	50	600	
* BYT261PIV-400(2)	2x60	400	1.40	6	50	600	
* BYV255V-200(1)	2x100	200	0.85	10	80	1600	
* BYT200PIV-400(1)	2x100	400	1.40	12	55	1600	

(1) : Antiparallel pinout.

(2) : Parallel pinout

 V_F and I_R rated per diode, at $T_J=125^\circ\text{C}$, except for BYT Series, rated at $T_J=100^\circ\text{C}$

♦ : New product

* : 2500V isolation ; UL recognized file # E81734.