

ANEXO II

Serie TE2D

Tabla de selección

Velocidad 1500 rpm 400V 4 polos 50 HZ

Tipo	Potencia		Velocidad r/min	In A	Eficiencia (η)			Factor de potencia			Tn Nm	Ts Tn	Tmax Tn	Is In	Inercia (J) kgm ²	Ruido LwdB(A)	Peso kg
	Kw	Hp			100%	75%	50%	100%	75%	50%							
				%													
TE2D631P4	0.12	0.18	1360	0.40	59.0	59.0	56.0	0.72	0.63	0.57	0.84	2.1	2.2	4.4	0.0002	52	13.0
TE2D632P4	0.18	0.25	1360	0.60	62.0	61.6	57.5	0.73	0.65	0.57	1.26	2.1	2.2	4.4	0.0003	52	13.5
TE2D711P4	0.25	0.37	1380	0.70	67.3	69.3	60.1	0.74	0.65	0.58	1.73	2.1	2.2	5.2	0.0006	55	14.0
TE2D712P4	0.37	0.50	1400	1.06	69.3	71.0	68.4	0.76	0.65	0.52	2.54	2.1	2.2	5.2	0.0008	55	14.5
TE2D801P4	0.55	0.75	1390	0.49	72.8	72.6	69.0	0.75	0.66	0.55	3.78	2.4	2.3	5.2	0.0018	58	15
TE2D802P4	0.75	1.00	1390	1.93	74.4	74.2	70.0	0.74	0.65	0.54	2.15	2.4	2.3	6.0	0.0021	58	16
TE2D90SP4	1.1	1.50	1400	2.75	74.4	77.8	75.0	0.79	0.70	0.57	7.50	2.3	2.3	6.0	0.0023	61	23
TE2D90LP4	1.5	2.00	1400	3.52	78.5	78.1	76.7	0.71	0.75	0.64	10.23	2.3	2.3	6.0	0.0027	61	25
TE2D100L1P4	2.2	3.00	1420	4.90	82.5	83.0	81	0.72	0.76	0.65	14.80	2.3	2.3	7.0	0.0054	64	33
TE2D100L2P4	3	4.00	1420	6.44	82.6	83.2	81.6	0.76	0.78	0.66	20.18	2.3	2.3	7.0	0.0067	64	35
TE2D112MP4	4	5.50	1440	8.36	85.0	84.8	82.7	0.73	0.76	0.64	26.53	2.3	2.3	7.0	0.0095	65	41
TE2D132SP4	5.5	7.50	1440	11.2	86.7	86.8	85.6	0.87	0.81	0.71	36.48	2.3	2.3	7.0	0.0214	71	65
TE2D132MP4	7.5	10	1460	14.8	87.9	88.2	87.2	0.87	0.83	0.74	49.74	2.3	2.3	7.0	0.0296	71	76
TE2D160MP4	11	15	1460	21.1	89.2	89.2	87.8	0.85	0.83	0.75	71.59	2.2	2.3	7.0	0.0747	75	118
TE2D160LP4	15	20	1470	28.6	89.7	89.7	88.4	0.85	0.82	0.75	98.12	2.2	2.3	7.5	0.0918	75	132
TE2D180MP4	18.5	25	1470	34.6	90.7	90.6	89.2	0.89	0.86	0.77	120.19	2.2	2.3	7.5	0.139	76	164
TE2D180LP4	22	30	1480	41	91.6	91.7	90.7	0.88	0.85	0.75	142.93	2.2	2.3	7.5	0.158	76	182
TE2D200LP4	30	40	1480	54.7	92.6	92.4	91.6	0.87	0.84	0.75	160.96	2.2	2.3	7.2	0.262	79	245
TE2D225SP4	37	50	1480	66.4	92.8	92.7	91.5	0.87	0.84	0.75	198.51	2.2	2.3	7.2	0.406	81	258
TE2D225MP4	45	60	1480	80.4	93.4	93.3	92.5	0.89	0.87	0.81	290.37	2.2	2.3	7.2	0.469	81	290
TE2D250MP4	55	75	1480	97.8	94.0	94.2	93.6	0.89	0.88	0.82	354.90	2.2	2.3	7.2	0.66	83	388
TE2D280SP4	75	100	1480	133	94.0	93.5	92.0	0.91	0.89	0.84	483.95	2.2	2.3	7.2	1.12	86	510
TE2D280MP4	90	120	1485	158.7	94.0	93.5	91.8	0.88	0.86	0.80	578.79	2.2	2.3	7.2	1.46	86	606
TE2D315SP4	110	150	1485	191	94.4	93.5	91.4	0.88	0.87	0.81	707.41	2.1	2.2	6.9	3.11	93	91
TE2D315MP4	132	175	1485	228	94.8	94.8	93.3	0.91	0.88	0.82	849.89	2.1	2.2	6.9	3.62	93	1000
TE2D315L1P4	160	220	1485	273	95.0	94.5	93.5	0.88	0.85	0.78	1028.96	2.1	2.2	6.9	4.13	97	1055
TE2D315L2P4	200	270	1485	341	95.0	94.1	92.7	0.89	0.87	0.81	1286.20	2.1	2.2	6.9	4.73	97	1128
TE2D355MP4	250	340	1490	421	95.0	94.4	93.4	0.89	0.87	0.79	1602.35	2.1	2.2	6.9	6.5	101	1700
TE2D355LP4	315	430	1490	528	95.0	95.0	93.8	0.88	0.86	0.79	2018.96	2.1	2.2	6.9	8.2	101	1900

Los valores de corriente para 220 V pueden calcularse multiplicando el valor a 380 V por el factor 1.73. Está disponible para todos los motores de potencias menores a 3 kW.

DATA SHEET

BYV29 series
Rectifier diodes
ultrafast

Product specification

September 1998



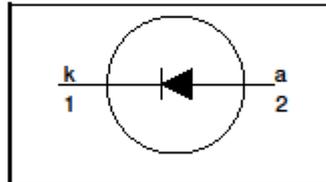
**Rectifier diodes
ultrafast**

BYV29 series

FEATURES

- Low forward volt drop
- Fast switching
- Soft recovery characteristic
- High thermal cycling performance
- Low thermal resistance

SYMBOL



QUICK REFERENCE DATA

$V_R = 300\text{ V} / 400\text{ V} / 500\text{ V}$
 $V_F \leq 1.03\text{ V}$
 $I_{F(AV)} = 9\text{ A}$
 $t_r \leq 60\text{ ns}$

GENERAL DESCRIPTION

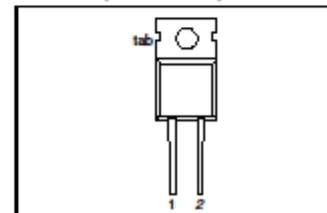
Ultra-fast, epitaxial rectifier diodes intended for use as output rectifiers in high frequency switched mode power supplies.

The BYV29 series is supplied in the conventional leaded SOD59 (TO220AC) package.

PINNING

PIN	DESCRIPTION
1	cathode
2	anode
tab	cathode

SOD59 (TO220AC)



LIMITING VALUES

Limiting values in accordance with the Absolute Maximum System (IEC 134).

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.			UNIT
				-300	-400	-500	
V_{RRM}	Peak repetitive reverse voltage	BYV29	-	300	400	500	V
V_{FRM}	Crest working reverse voltage		300	400	500	V	
V_R	Continuous reverse voltage		300	400	500	V	
$I_{F(AV)}$	Average forward current ¹	square wave; $\delta = 0.5$; $T_{mb} \leq 123\text{ }^\circ\text{C}$	-	9			A
I_{FRM}	Repetitive peak forward current	$t = 25\text{ }\mu\text{s}$; $\delta = 0.5$; $T_{mb} \leq 123\text{ }^\circ\text{C}$	-	18			A
I_{FSM}	Non-repetitive peak forward current.	$t = 10\text{ ms}$	-	100			A
		$t = 8.3\text{ ms}$ sinusoidal; with reapplied $V_{RRM(max)}$	-	110			A
T_{stg}	Storage temperature		-40	150			$^\circ\text{C}$
T_J	Operating junction temperature		-	150			$^\circ\text{C}$

THERMAL RESISTANCES

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
$R_{th(j-mb)}$	Thermal resistance junction to mounting base		-	-	2.5	K/W
$R_{th(j-a)}$	Thermal resistance junction to ambient	in free air.	-	60	-	K/W

¹ Neglecting switching and reverse current losses.

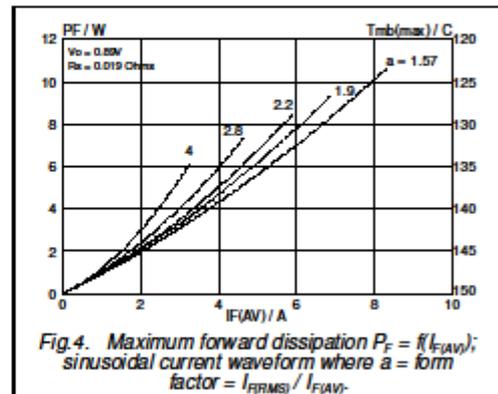
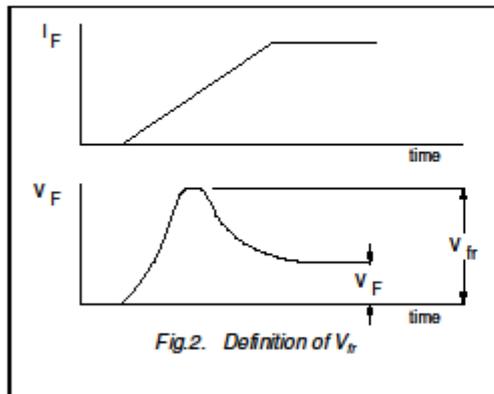
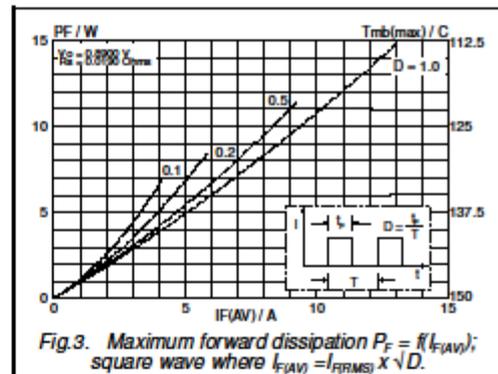
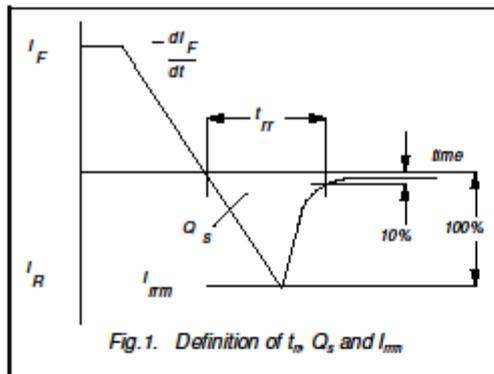
Rectifier diodes
ultrafast

BYV29 series

ELECTRICAL CHARACTERISTICS

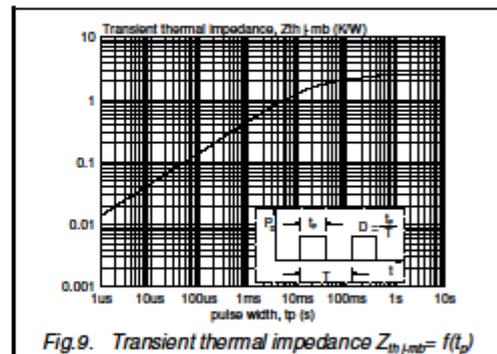
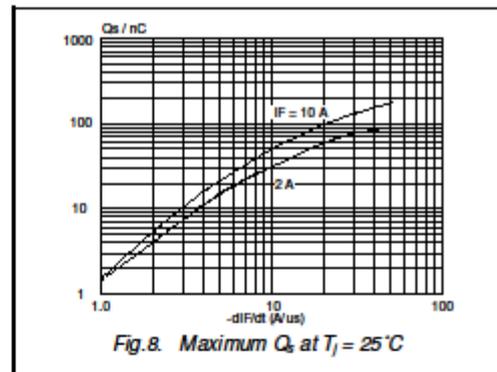
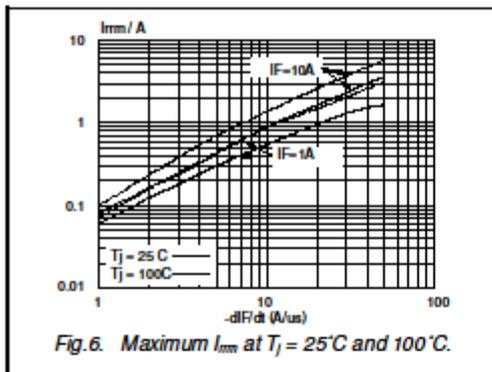
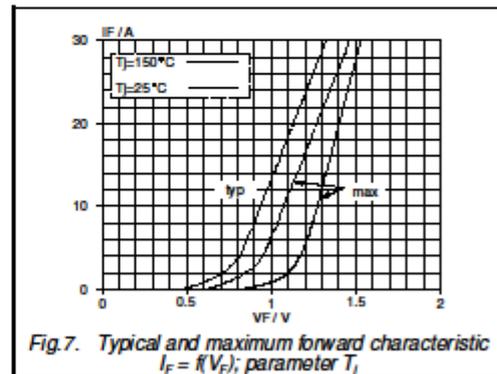
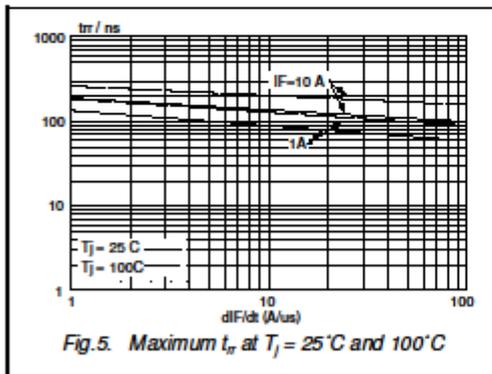
$T_J = 25\text{ }^\circ\text{C}$ unless otherwise stated

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
V_F	Forward voltage	$I_F = 8\text{ A}$; $T_J = 150\text{ }^\circ\text{C}$	-	0.90	1.03	V
		$I_F = 8\text{ A}$	-	1.05	1.25	V
		$I_F = 20\text{ A}$	-	1.20	1.40	V
I_R	Reverse current	$V_R = V_{RRM}$	-	2.0	50	μA
		$V_R = V_{RRM}$; $T_J = 100\text{ }^\circ\text{C}$	-	0.1	0.35	mA
Q_s	Reverse recovery charge	$I_F = 2\text{ A}$ to $V_R \geq 30\text{ V}$; $di_F/dt = 20\text{ A}/\mu\text{s}$	-	40	60	nC
t_r	Reverse recovery time	$I_F = 1\text{ A}$ to $V_R \geq 30\text{ V}$; $di_F/dt = 100\text{ A}/\mu\text{s}$	-	50	60	ns
I_{rm}	Peak reverse recovery current	$I_F = 10\text{ A}$ to $V_R \geq 30\text{ V}$; $di_F/dt = 50\text{ A}/\mu\text{s}$; $T_J = 100\text{ }^\circ\text{C}$	-	4.0	5.5	A
V_{fr}	Forward recovery voltage	$I_F = 10\text{ A}$; $di_F/dt = 10\text{ A}/\mu\text{s}$	-	2.5	-	V



Rectifier diodes
ultrafast

BYV29 series



Legal information

DATA SHEET STATUS

DOCUMENT STATUS ⁽¹⁾	PRODUCT STATUS ⁽²⁾	DEFINITION
Objective data sheet	Development	This document contains data from the objective specification for product development.
Preliminary data sheet	Qualification	This document contains data from the preliminary specification.
Product data sheet	Production	This document contains the product specification.

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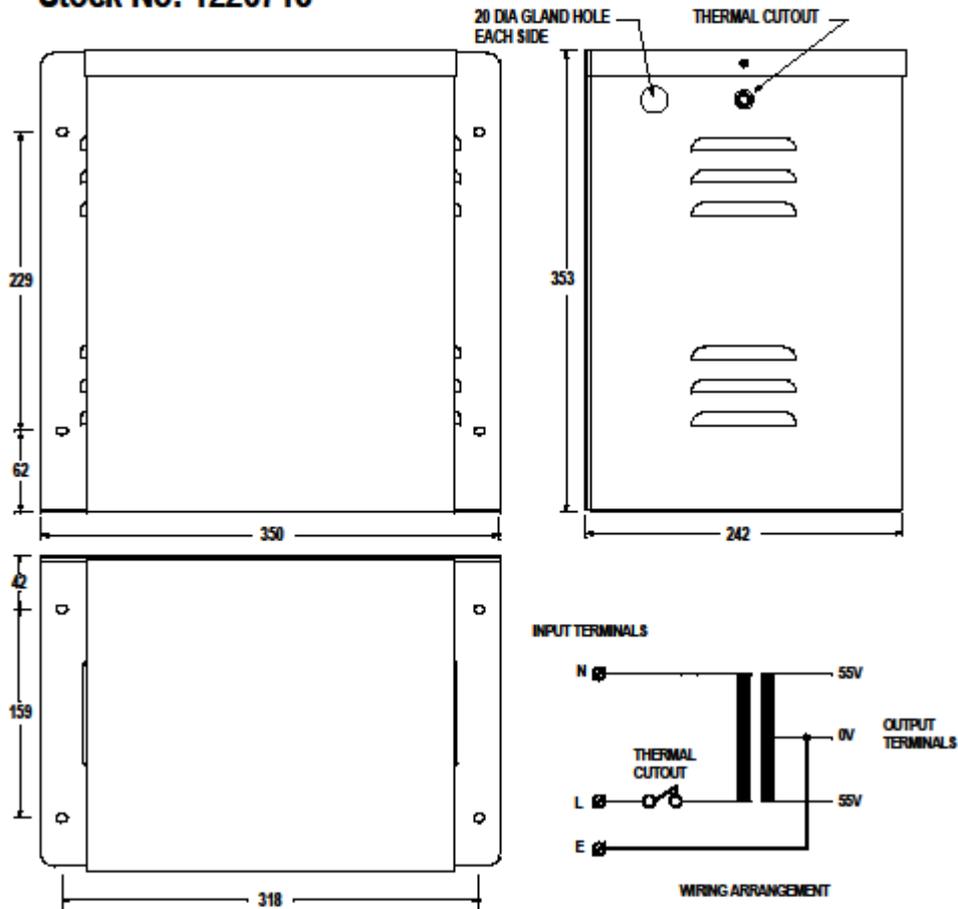
Printed in The Netherlands



ENGLISH

RS Pro Datasheet

Stock No: 1226718



WALL MOUNTED ISOLATION TRANSFORMER

INPUT	230V 50 Hz
OUTPUT	55-0-55V CENTRE TAPPED TO EARTH
RATING	2.5kVA CONTINUOUS 5.0kVA INTERMITTENT 5MINS ON 15 MINS OFF
THERMAL CUTOUT	18 AMP
ENCLOSURE	POWDER COATED SHEET STEEL
IP RATING	IP22

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