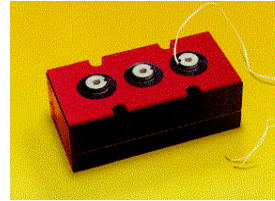


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P1Z / P2Z / P3Z / P7Z

Thyristor / Diode Isolated Module POW-R-BRIKs SELECTOR GUIDE

| TYPE | VDRM / VRRM T _j = T _j max (V) | IT(AV) at T _c (180° sin) | | Maximum Power dissipation (W) | IT(RMS) E1 (A) | IT(RMS) E2 (A) | V _{gt} Max 25°C (V) | I _{gt} Max 25°C (mA) | di/dt non repetitive (A/μs) | dV/dt Min T _j = T _j max (V/μs) | R _{th} JC per module (°C/W) | R _{th} CS per module (°C/W) | R _{th} CA per module (°C/W) | T _j max °C | PACKAGE INFORMATION | |
|--|--|--|------|--|----------------------|----------------------|---------------------------------------|--|--------------------------------------|---|---|---|---|-----------------------------|---------------------|----------------------------------|
| | | (A) | (°C) | | | | | | | | | | | | Tapped hole | base plate dimensions (mm) |
| DIODE / DIODE MODULES | | | | | | | | | | | | | | | | |
| P1Z7AAR700W-- | 2200-3000 | 355 | 105 | 1125 | 7000 | 7000 | - | - | - | - | 0,04 | 0,010 | 0,10 | 150:7/16-14 UNC-2B | 153 x 77 | |
| P1Z7ABR800W-- | 1200-2200 | 435 | 105 | 1125 | 9000 | 9000 | - | - | - | - | 0,04 | 0,010 | 0,10 | 150:7/16-14 UNC-2B | 153 x 77 | |
| P1Z9AAR900W-- | 2200-3000 | 590 | 105 | 1500 | 16000 | 16000 | - | - | - | - | 0,03 | 0,008 | 0,08 | 150:7/16-14 UNC-2B | 190x94 | |
| P1Z9ACR900W-- | 800-1200 | 740 | 105 | 1500 | 30000 | 30000 | - | - | - | - | 0,03 | 0,008 | 0,08 | 150:7/16-14 UNC-2B | 190x94 | |
| P1Z9ADR900W-- | 600 | 800 | 110 | 1330 | 50000 | 50000 | - | - | - | - | 0,03 | 0,008 | 0,08 | 150:7/16-14 UNC-2B | 190x94 | |
| P1ZAABRA00W-- | 2200-3000 | 1270 | 80 | - | - | - | - | - | - | - | 0,03 | 0,008 | 0,08 | 150:7/16-14 UNC-2B | 216x110 | |
| P1ZAACRA00W-- | 1800-2200 | 1420 | 80 | - | - | - | - | - | - | - | 0,03 | 0,008 | 0,08 | 150:7/16-14 UNC-2B | 216x110 | |
| P1ZAADRA00W-- | 1200-1800 | 1585 | 80 | - | - | - | - | - | - | - | 0,03 | 0,008 | 0,08 | 150:7/16-14 UNC-2B | 216x110 | |
| HALF CONTROLLED SCR / DIODE MODULES | | | | | | | | | | | | | | | | |
| P2Z7ABB700W-- | 1600-2200 | 380 | 85 | 1100 | 9000 | 9000 | 3 | 150 | 600 | 600 | 0,04 | 0,010 | 0,10 | 130:7/16-14 UNC-2B | 153 x 77 | |
| P2Z7ACB700W-- | 1200-1600 | 395 | 85 | 1100 | 10000 | 14000 | 3 | 150 | 600 | 600 | 0,04 | 0,010 | 0,10 | 130:7/16-14 UNC-2B | 153 x 77 | |
| P2Z9AAA900W-- | 2000-3000 | 430 | 85 | 1325 | 15000 | 16000 | 3 | 200 | 600 | 600 | 0,03 | 0,008 | 0,08 | 125:7/16-14 UNC-2B | 190x94 | |
| P2Z9ABA900W-- | 1600-2000 | 520 | 85 | 1465 | 17000 | 16000 | 3 | 200 | 600 | 600 | 0,03 | 0,008 | 0,08 | 130:7/16-14 UNC-2B | 190x94 | |
| P2Z9ACA900W-- | 1200-1600 | 590 | 85 | 1465 | 25000 | 16000 | 3 | 200 | 600 | 600 | 0,03 | 0,008 | 0,08 | 130:7/16-14 UNC-2B | 190x94 | |
| P2ZAABA00W-- | 1200-2200 | 880 | 80 | - | - | - | 3 | 200 | 400 | 400 | 0,03 | 0,008 | 0,08 | 125:7/16-14 UNC-2B | 216x110 | |
| FULL CONTROL SCR / SCR MODULES | | | | | | | | | | | | | | | | |
| P3Z7ABT700W-- | 1600-2200 | 345 | 85 | 1095 | 9000 | 9000 | 3 | 150 | 600 | 300 | 0,04 | 0,010 | 0,10 | 130:7/16-14 UNC-2B | 153 x 77 | |
| P3Z7ACT700W-- | 1200-1600 | 375 | 85 | 1095 | 1000 | 1000 | 3 | 150 | 600 | 300 | 0,04 | 0,010 | 0,10 | 130:7/16-14 UNC-2B | 153 x 77 | |
| P3Z7AAT800W-- | 2200-3000 | 300 | 85 | 1095 | 10000 | 10000 | 3 | 150 | 600 | 300 | 0,04 | 0,010 | 0,10 | 130:7/16-14 UNC-2B | 153 x 77 | |
| P3Z7ABT800W-- | 1400-2200 | 390 | 85 | 1095 | 12000 | 12000 | 3 | 150 | 600 | 300 | 0,04 | 0,010 | 0,10 | 130:7/16-14 UNC-2B | 153 x 77 | |
| P3Z7ACT800W-- | 1200-1400 | 450 | 85 | 1095 | 15000 | 15000 | 3 | 150 | 600 | 300 | 0,04 | 0,010 | 0,10 | 130:7/16-14 UNC-2B | 153 x 77 | |
| P3Z9AAT900W-- | 2000-3000 | 355 | 85 | 1295 | 15000 | 15000 | 3 | 200 | 600 | 300 | 0,03 | 0,008 | 0,08 | 125:7/16-14 UNC-2B | 190x94 | |

| | | | | | | | | | | | | | | | |
|---------------|-----------|-----|----|------|-------|-------|---|-----|-----|-----|------|-------|------|--------------------|---------|
| P3Z9ABT900W-- | 1600-2000 | 470 | 85 | 1460 | 17000 | 17000 | 3 | 200 | 600 | 300 | 0,03 | 0,008 | 0,08 | 130:7/16-14 UNC-2B | 190x94 |
| P3Z9ACT900W-- | 1200-1600 | 600 | 85 | 1460 | 25000 | 25000 | 3 | 200 | 600 | 300 | 0,03 | 0,008 | 0,08 | 130:7/16-14 UNC-2B | 190x94 |
| P3AABTA00W-- | 1200-2200 | 880 | 80 | - | - | - | 3 | 200 | 400 | 300 | 0,03 | 0,008 | 0,08 | 125:7/16-14 UNC-2B | 216x110 |

HALF CONTROLLED DIODE / SCR MODULES

| | | | | | | | | | | | | | | | |
|---------------|-----------|-----|----|------|-------|-------|---|-----|-----|-----|------|-------|------|--------------------|----------|
| P7Z7ABB700W-- | 1600-2200 | 380 | 85 | 1100 | 9000 | 9000 | 3 | 150 | 600 | 300 | 0,04 | 0,010 | 0,10 | 130:7/16-14 UNC-2B | 153 x 77 |
| P7Z7ABC700W-- | 1200-1600 | 395 | 85 | 1100 | 14000 | 10000 | 3 | 150 | 600 | 300 | 0,04 | 0,010 | 0,10 | 130:7/16-14 UNC-2B | 153 x 77 |
| P7Z9AAA900W-- | 2000-3000 | 430 | 85 | 1325 | 16000 | 15000 | 3 | 200 | 600 | 300 | 0,03 | 0,008 | 0,08 | 125:7/16-14 UNC-2B | 190x94 |
| P7Z9AAB900W-- | 1600-2000 | 520 | 85 | 1465 | 16000 | 17000 | 3 | 200 | 600 | 300 | 0,03 | 0,008 | 0,08 | 130:7/16-14 UNC-2B | 190x94 |
| P7Z9AAC900W-- | 1200-1600 | 590 | 85 | 1465 | 16000 | 25000 | 3 | 200 | 600 | 300 | 0,03 | 0,008 | 0,08 | 130:7/16-14 UNC-2B | 190x94 |
| P7ZAAABA00W-- | 1200-2200 | 880 | 80 | - | - | - | 3 | 200 | 400 | 300 | 0,03 | 0,008 | 0,08 | 125:7/16-14 UNC-2B | 216x110 |

ORDERING INFORMATION

Example : P3 Z 7 A CT7 00 W16 is a 1600V, Dual SCR module with standard Thermistor

P3 see (1)

Z see (2)

7 see (3)

A see (4)

CT7 see (5)

00 see (6)

W16 see (7)

(1)

P1 : Dual Diode

P2 : SCR / Diode

P3 : Dual SCR

P7 : Diode / SCR

(2), (3), (4) Package Style

(3) indicate size of the Block & elements

(5)

Element code

(6)

Special Features

00 : Module includes standard thermistor

XT : no thermistor

Other codes for customer specifications

(7)

Voltage rating

W04 : 400V

W08 : 800V

"

W16 : 1600V

"

W30 : 3000V

All values shown in this document are subject to change for product improvement. The information, diagrams and all other data included herein are believed to be correct and reliable.