



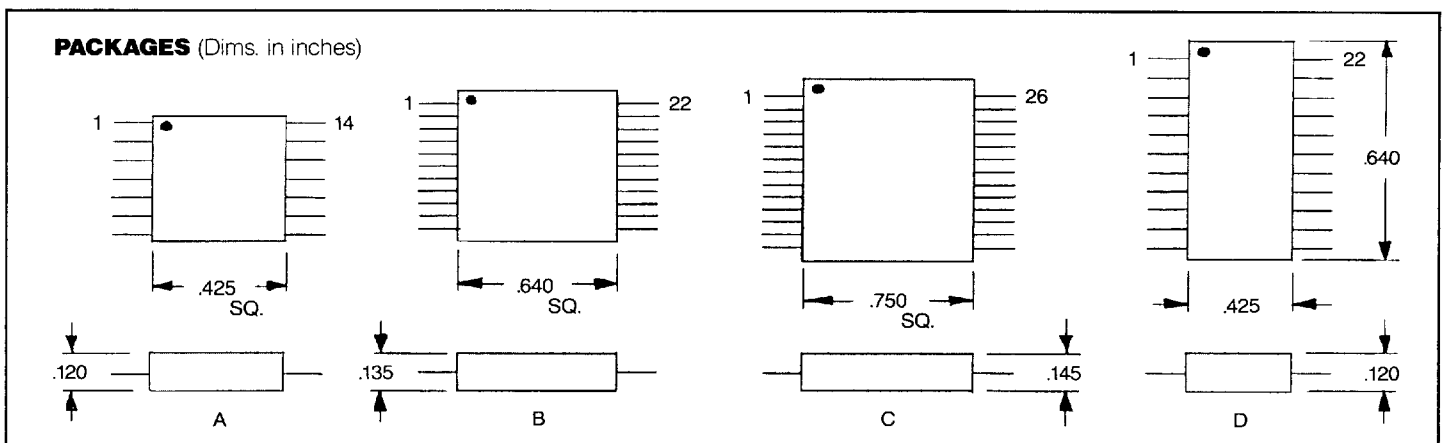
# MICROWAVE PIN DIODE DRIVERS

## FEATURES:

- MIL-STD-883 SCREENING
- -65° TO +150°C STORAGE TEMP RANGE
- TTL COMPATIBLE INPUTS
- -55° TO +125°C OPERATING TEMP RANGE

| MODEL               | CHANNEL NUMBER | OUTPUT CURRENT |       |               |       |     |     | OUTPUT VOLTAGE OPEN CKT (VEE = -12) (V) |      | MAX SWITCH TIME (ns) |     | MAX REP RATE (MHz) | OPERATING VOLTAGE LIMIT |     |     |     | PACKAGE |
|---------------------|----------------|----------------|-------|---------------|-------|-----|-----|---|------|----------------------|-----|--------------------|-------------------------|-----|-----|-----|---------|
|                     |                | DC (mA)        |       | MIN PEAK (mA) |       | POS | NEG | TON                                     | TOFF | +5 V                 |     |                    | VEE                     |     |     |     |         |
|                     |                | MIN            | MAX   | MIN           | MAX   |     |     |   |      | POS                  | NEG | MIN                | MAX                     | MIN | MAX |     |         |
| PD111 <sup>1</sup>  | 1              | 12             | 18    | 12            | 18    | 300 | 300 | 2.5                                     | 5.5  | 15                   | 18  | 5                  | 4.5                     | 5.5 | 4.5 | 16  | A       |
| PD211 <sup>2</sup>  | 2              | 12             | 18    | 12            | 18    | 300 | 300 | 2.5                                     | 5.5  | 15                   | 18  | 5                  | 4.5                     | 5.5 | 4.5 | 16  | A       |
| PD217               | 2              | 24/60          | 36/60 | 24/40         | 36/60 | N/A | N/A | 3.5                                     | 11.0 | 100                  | 200 | 1                  | 4.5                     | 5.5 | 4.5 | 16  | D       |
| PD311 <sup>3</sup>  | 1              | 8              | 12    | 24            | 36    | 300 | 300 | 4.0                                     | 11.0 | 6                    | 8   | 20                 | 4.5                     | 5.5 | 4.5 | 5.5 | A       |
| PDF311              | 1              | 8              | 12    | 34            | 36    | 300 | 300 | 4.0                                     | 11.0 | 12                   | 15  | 10                 | 4.5                     | 5.5 | 4.5 | 16  | A       |
| PD350               | 3              | 40             | 60    | 40            | 60    | N/A | N/A | 3.5                                     | 11.0 | 100                  | 200 | 1                  | 4.5                     | 5.5 | 4.5 | 16  | B       |
| PD450               | 4              | 40             | 60    | 40            | 60    | N/A | N/A | 3.5                                     | 11.0 | 100                  | 200 | 1                  | 4.5                     | 5.5 | 4.5 | 16  | B       |
| PD630 <sup>4</sup>  | 6              | 24             | 36    | 12            | 18    | N/A | N/A | 4.0                                     | 5.0  | 45                   | 50  | 1                  | 4.5                     | 5.5 | 4.5 | 16  | B       |
| PD650               | 6              | 40             | 60    | 40            | 60    | N/A | N/A | 3.5                                     | 11.0 | 100                  | 200 | 1                  | 4.5                     | 5.5 | 4.5 | 16  | B       |
| PD1050 <sup>4</sup> | 10             | 40             | 60    | 24            | 36    | N/A | N/A | 4.0                                     | 5.0  | 45                   | 50  | 1                  | 4.5                     | 5.5 | 4.5 | 16  | C       |
| PDF2311             | 2              | 8              | 12    | 24            | 36    | 300 | 300 | 4.0                                     | 11.0 | 12                   | 15  | 10                 | 4.5                     | 5.5 | 4.5 | 16  | D       |
| PDF3311             | 3              | 10             | 14    | 10            | 14    | 300 | 300 | 4.0                                     | 4.5  | 10                   | 10  | 10                 | 4.5                     | 5.5 | 4.5 | 12  | B       |

- NOTES: 1. PD111 is available in a smaller package (.380" x .380" x .090")
2. Different output are available for PD211:  
 PD211B: positive output current + 30 mA ± 20%  
 PD211-10: negative output voltage -10V ± 20%  
 PD211-30: negative output voltage -10V ± 20% and negative output current -30mA ± 20%  
 Any combination of the above is available.
3. Different output current are available for PD311:  
 PD311B: ± 40mA (MIN), ± 60mA (MAX)  
 PD311C: ± 10mA (MIN), ± 15mA (MAX)  
 PD311D: ± 24mA (MIN), ± 12mA (MAX)  
 PD311E: ± 8mA (MIN), ± 12mA (MAX)
4. PD630 and PD1050 are with decoder input.



- MPT OFFERS A COMPLETE LINE OF PIN DIODE SWITCH DRIVERS WITH OUTPUT CURRENT CAPABILITY OF 10 mA TO 50 mA AND SWITCHING SPEEDS AS FAST AS 6 NS. ECL COMPATIBLE DRIVER IS ALSO AVAILABLE.
- ALL MPT DRIVERS ARE DESIGNED BY OUR EXPERIENCED ENGINEERING STAFF, THUS, IF THE DRIVERS LISTED IN THE TABLE DO NOT MEET YOUR REQUIREMENTS: WE WOULD BE HAPPY TO DISCUSS A CUSTOM CIRCUIT TO FIT YOUR EXACT NEEDS.

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