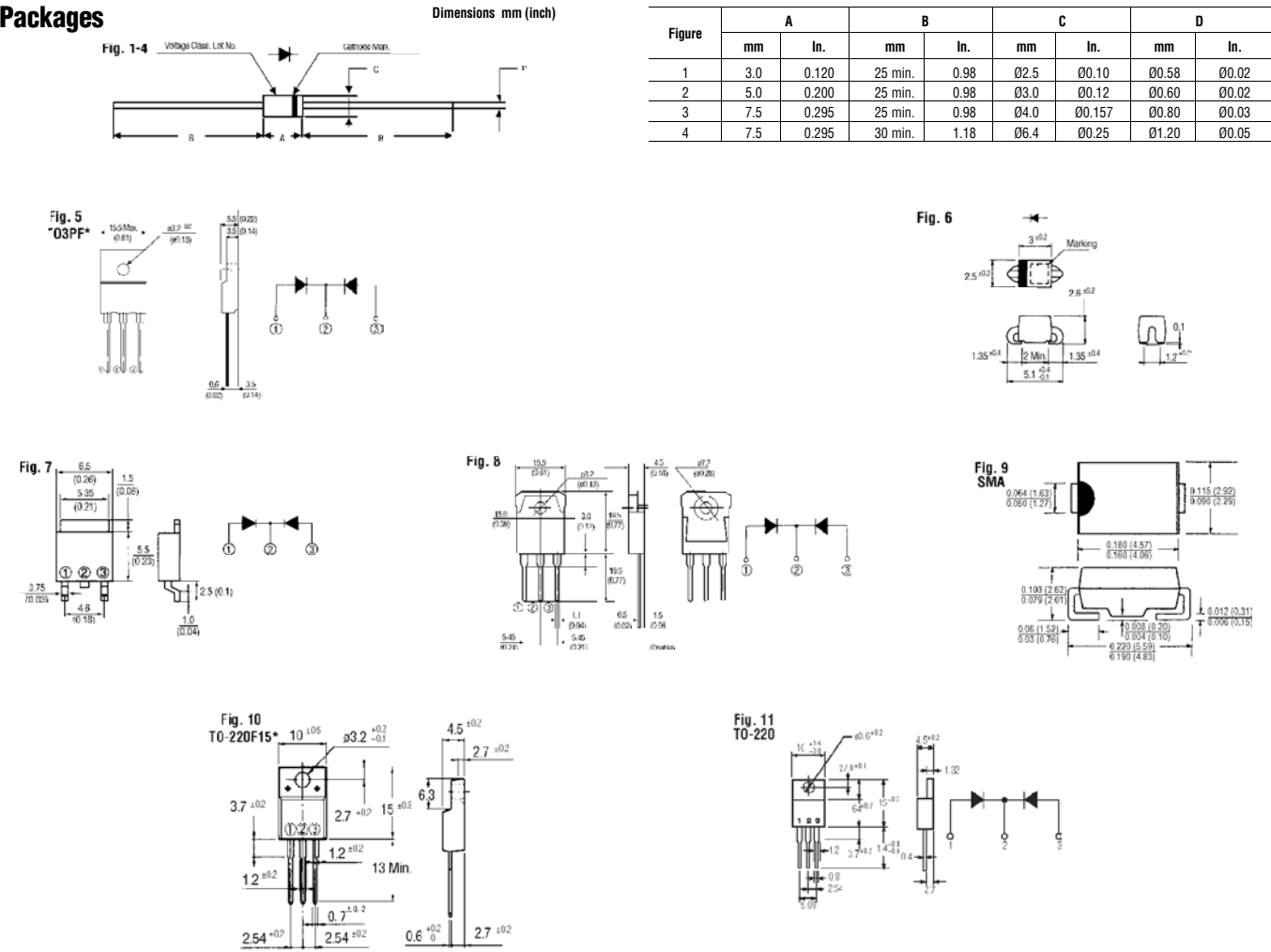


Packages



\*Full molded package eliminates the need for isolating hardware and greatly reduces your cost as compared with mounting non-isolated package. Contact Allied for information on complete line availability on TO220 and T03P devices.

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Schottky Barrier Rectifiers

| Mfr.'s Type | Fig. | Maximum Ratings           |                                     | I <sub>RRM</sub> <sup>2</sup><br>Amps | Characteristics<br>(T <sub>a</sub> = 25°C) V <sub>RM</sub><br>Max. Volts | I <sub>RRM</sub> <sup>2</sup><br>Max. mA |
|-------------|------|---------------------------|-------------------------------------|---------------------------------------|--------------------------------------------------------------------------|------------------------------------------|
|             |      | V <sub>RRM</sub><br>Volts | I <sub>O</sub> <sup>1</sup><br>Amps |                                       |                                                                          |                                          |
| ERA82-004   | 1    | 45                        | 0.60 (T <sub>a</sub> = 60°C)        | 25                                    | 0.55 (I <sub>F</sub> = 0.6 A)                                            | 1.0                                      |
| ERA83-006   | 1    | 60                        | 1.00 (T <sub>i</sub> = 111°C)       | 30                                    | 0.58 (I <sub>F</sub> = 1.0 A)                                            | 2.0                                      |
| ERA81-004   | 2    | 45                        | 1.00 (T <sub>a</sub> = 25°C)        | 50                                    | 0.55 (I <sub>F</sub> = 1.0 A)                                            | 2.0                                      |
| ERA84-009   | 2    | 90                        | 1.00 (T <sub>a</sub> = 25°C)        | 30                                    | 0.90 (I <sub>F</sub> = 1.0 A)                                            | 1.0                                      |
| ERB81-004   | 4    | 45                        | 2.00 (T <sub>a</sub> = 25°C)        | 100                                   | 0.55 (I <sub>F</sub> = 2.0 A)                                            | 5.0                                      |
| ERC81-004   | 4    | 45                        | 3.00 (T <sub>a</sub> = 25°C)        | 120                                   | 0.55 (I <sub>F</sub> = 3.0 A)                                            | 5.0                                      |
| ERC815-004  | 4    | 45                        | 5.00 (T <sub>a</sub> = 25°C)        | 140                                   | 0.55 (I <sub>F</sub> = 3.0 A)                                            | 5.0                                      |
| ESAD83M-006 | 5    | 60                        | 30.00 (T <sub>c</sub> = 75°C)       | 200                                   | 0.58 (I <sub>F</sub> = 12.5 A)                                           | 20.0                                     |
| SC802-04    | 6    | 45                        | 1.00 (T <sub>i</sub> = 115°C)       | 40                                    | 0.55 (I <sub>F</sub> = 1.0 A)                                            | 2.0                                      |
| SC802-06    | 6    | 60                        | 1.00 (T <sub>i</sub> = 111°C)       | 30                                    | 0.58 (I <sub>F</sub> = 1.0 A)                                            | 2.0                                      |
| KS823C04*   | 7    | 45                        | 5.00 (T <sub>c</sub> = 87°C)        | 60                                    | 0.55 (I <sub>F</sub> = 2.5 A)                                            | 5.0                                      |

Notes: ( ) indicates conditions. **Other Conditions:** <sup>1</sup>Square wave duty 1/2. <sup>2</sup>Sine wave, 10 ms. <sup>3</sup>V<sub>R</sub> = V<sub>RRM</sub>. \*Dual schottky. **Thermal Ratings:** -40 to +125°C.

Fast Recovery Rectifiers

| Mfr.'s Type | Fig. | Maximum Ratings           |                                     | I <sub>RRM</sub> <sup>2</sup><br>Amps | Characteristics (T <sub>a</sub> = 25°C) |                                          | T <sub>RR</sub><br>µS                                  |
|-------------|------|---------------------------|-------------------------------------|---------------------------------------|-----------------------------------------|------------------------------------------|--------------------------------------------------------|
|             |      | V <sub>RRM</sub><br>Volts | I <sub>O</sub> <sup>1</sup><br>Amps |                                       | V <sub>RM</sub><br>Max. Volts           | I <sub>RRM</sub> <sup>2</sup><br>Max. µA |                                                        |
| ERA34-10    | 1    | 1000                      | 0.1 (T <sub>a</sub> = 60°C)         | 2                                     | 3.00 (I <sub>F</sub> = 0.1 A)           | 50                                       | 0.150 (I <sub>F</sub> = I <sub>R</sub> = 0.1 A)        |
| ERA92-02    | 1    | 200                       | 1.0 (T <sub>a</sub> = 25°C)         | 25                                    | 1.05 (I <sub>F</sub> = 1.0 A)           | 50                                       | 0.035 (I <sub>F</sub> = 0.1 A, I <sub>R</sub> = 0.2 A) |
| PA905C4     | 8    | 400                       | 20.0 (T <sub>c</sub> = 92°C)        | 80                                    | 1.50 (I <sub>F</sub> = 10.0 A)          | 500                                      | 0.050 (I <sub>F</sub> = 0.1 A, I <sub>R</sub> = 0.2 A) |
| ES1B        | 9    | 100                       | 1.0 (T <sub>i</sub> = 110°C)        | 30                                    | 0.98 (I <sub>F</sub> = 1.0 A)           | 200                                      | 0.020 (I <sub>F</sub> = 0.5 A, I <sub>R</sub> = 1.0 A) |
| YG902C2R    | 10   | 200                       | 10.0 (T <sub>c</sub> = 115°C)       | 50                                    | 0.95 (I <sub>F</sub> = 5.0 A)           | 100                                      | 0.035 (I <sub>F</sub> = 0.1 A, I <sub>R</sub> = 0.2 A) |
| YG906C2R    | 10   | 200                       | 20.0 (T <sub>c</sub> = 102°C)       | 80                                    | 0.98 (I <sub>F</sub> = 10.0 A)          | 200                                      | 0.035 (I <sub>F</sub> = 0.1 A, I <sub>R</sub> = 0.2 A) |
| ESAC92-02B  | 11   | 200                       | 16.0 (T <sub>c</sub> = 105°C)       | 50                                    | 0.98 (I <sub>F</sub> = 8.0 A)           | 100                                      | 0.035 (I <sub>F</sub> = 0.1 A, I <sub>R</sub> = 0.2 A) |
| ESAD92-02B  | 8    | 200                       | 30.0 (T <sub>c</sub> = 98°C)        | 100                                   | 0.98 (I <sub>F</sub> = 15.0 A)          | 200                                      | 0.040 (I <sub>F</sub> = 0.1 A, I <sub>R</sub> = 0.2 A) |
| SC311-4     | 6    | 400                       | 0.5 (T <sub>a</sub> = 25°C)         | 10                                    | 2.50 (I <sub>F</sub> = 0.5 A)           | 50                                       | 0.050 (I <sub>F</sub> = 0.1 A, I <sub>R</sub> = 0.2 A) |
| SC902-02    | 6    | 200                       | 1.0 (T <sub>a</sub> = 25°C)         | 25                                    | 1.05 (I <sub>F</sub> = 1.0 A)           | 50                                       | 0.035 (I <sub>F</sub> = 0.1 A, I <sub>R</sub> = 0.2 A) |

Notes: ( ) Indicates conditions. **Other Conditions:** <sup>1</sup>Single phase, sine half wave. <sup>2</sup>1/2 cycle, 50 Hz. <sup>3</sup>V<sub>R</sub> = V<sub>RRM</sub>. Additional full molded packages available. **Thermal Ratings:** -40°C to +150°C.