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# HRF22

Silicon Schottky Barrier Diode for High Frequency Rectifying

## HITACHI

ADE-208-163B (Z)

Rev. 2

Nov. 1994

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### Features

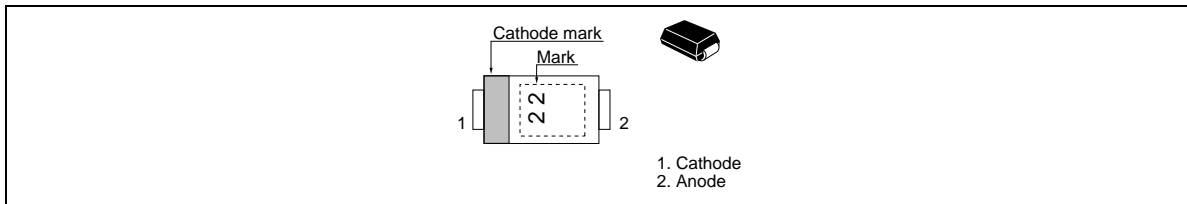
- Good for high-frequency rectify for  $V_R = 40V$ ,  $I_o = 1.0A$ , Output voltage = 6Vmax.
- LRP structure ensures higher reliability.

### Ordering Information

| Type No. | Laser Mark | Package Code |
|----------|------------|--------------|
| HRF22    | 22         | LRP          |

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### Outline



### Absolute Maximum Ratings ( $T_a = 25^\circ C$ )

| Item                                      | Symbol      | Value       | Unit       |
|---|-------------|-------------|------------|
| Repetitive peak reverse voltage           | $V_{RRM}$   | 40          | V          |
| Average forward current                   | $I_o$       | 1.0         | A          |
| Non-Repetitive peak forward surge current | $I_{FSM}^*$ | 20          | A          |
| Junction temperature                      | $T_j$       | 125         | $^\circ C$ |
| Storage temperature                       | $T_{stg}$   | -40 to +125 | $^\circ C$ |

Note: 10msec sine wave 1 pulse

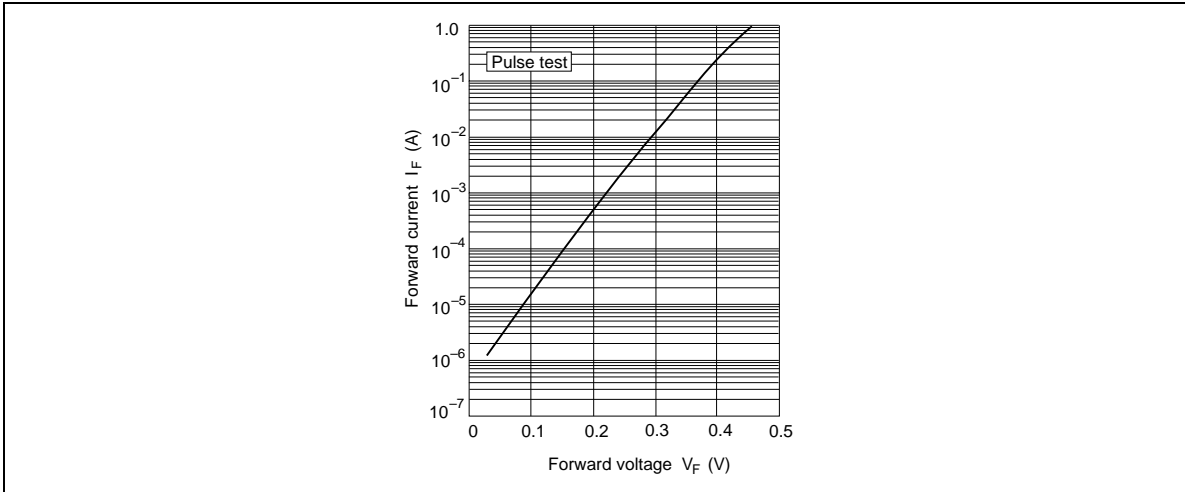
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## HRF22

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### Electrical Characteristics (Ta = 25°C)

| Item            | Symbol | Min | Typ | Max  | Unit | Test Condition |
|-----------------|--------|-----|-----|------|------|----------------|
| Forward voltage | $V_F$  | —   | —   | 0.55 | V    | $I_F = 1.0A$   |
| Reverse current | $I_R$  | —   | —   | 1.0  | mA   | $V_R = 40V$    |



**Fig.1 Forward current Vs. Forward voltage**

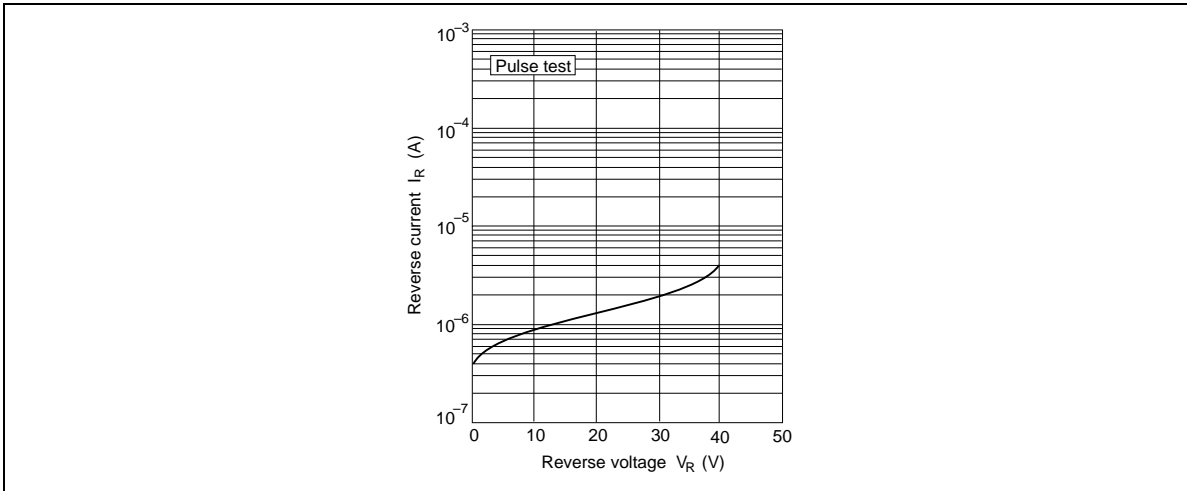


Fig.2 Reverse current Vs. Reverse voltage

Package Dimensions

