

HRW36F

Silicon Schottky Barrier Diode for High Frequency Rectifying

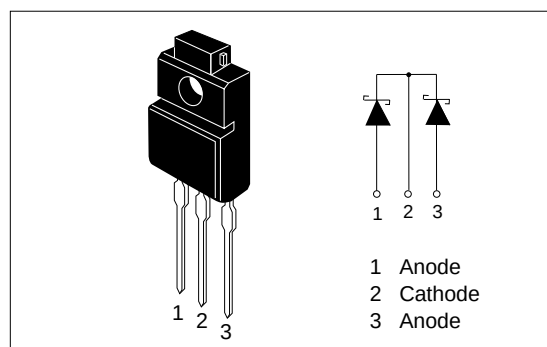
HITACHI

Rev. 2
Nov. 1994**Features**

- Low forward voltage drop. ($V_F=0.80\text{V max}$)
- High reverse voltage. ($V_R=90\text{V max}$)
- Full molded fin enables easy insulation from heat sink.

Ordering Information

Type No.	Laser Mark	Package Code
HRW36F	HRW36F	TO-220FM

Pin Arrangement**Absolute Maximum Ratings** ($T_a = 25^\circ\text{C}$) *

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	90	V
Average forward current	I_{O}^{**}	10	A
Non-Repetitive peak forward surge current	I_{FSM}^{***}	70	A
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +125	$^\circ\text{C}$

* Per one device

** Square wave, Duty (1/2), $T_c=95^\circ\text{C}$, Sum of two devices

*** Half sine wave 10msec

Electrical Characteristics ($T_a = 25^\circ\text{C}$) *

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_{F1}	—	—	0.6	V	$I_F = 2.0\text{ A}$
	V_{F2}	—	—	0.8		$I_F = 4.0\text{ A}$
Reverse current	I_R	—	—	4.0	mA	$V_R = 90\text{ V}$

* Per one device

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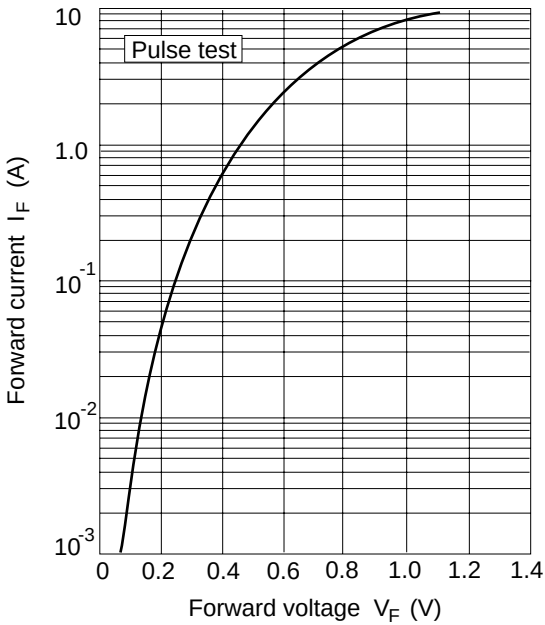


Fig.1 Forward current Vs. Forward voltage

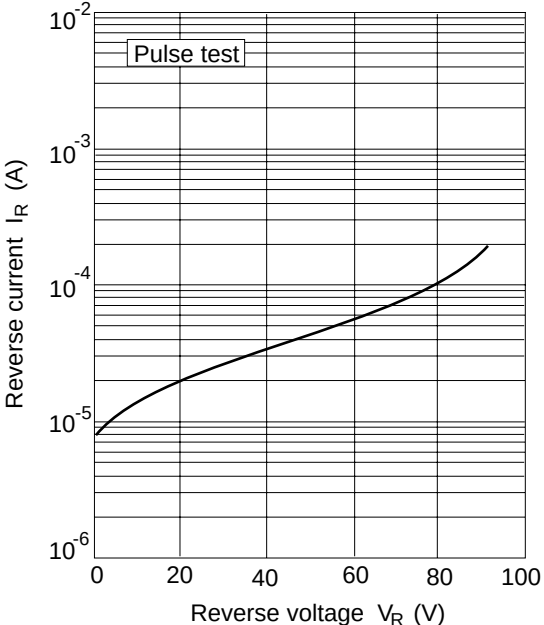
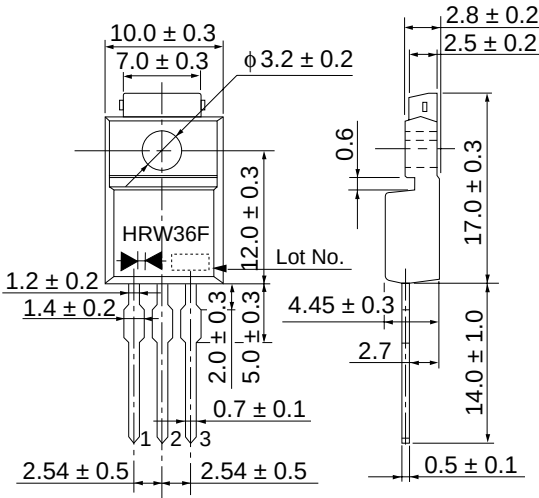


Fig.2 Reverse current Vs. Reverse voltage

Package Dimensions

Unit: mm



- 1 Anode
- 2 Cathode
- 3 Anode

HITACHI Code	TO-220FM
JEDEC Code	—
EIAJ Code	—
Weight (g)	1.8