# HRP22

## Silicon Schottky Barrier Diode for Rectifying

# **HITACHI**

ADE-208-303A(Z) Rev 1 Jul 1997

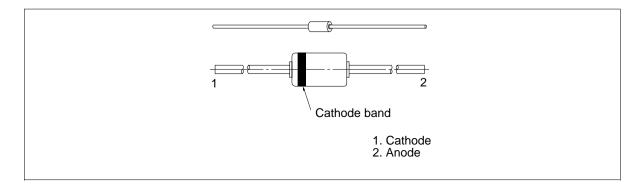
#### **Features**

- Good for high-frequency rectify.
- High reliability with glass seal.

### **Ordering Information**

Type No.	Cathode Band	Package Code
HRP22	White	DO-41

#### **Outline**





## HRP22

## **Absolute Maximum Ratings (Ta = 25^{\circ}C)**

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	$V_{RRM}$	50	V
Non-Repetitive peak reverse voltage	V <sub>RSM</sub> *1	50	V
Average rectified current	l <sub>o</sub> *2	1.0	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40 to +125	°C

Note: 1. See from Fig.1 to Fig.6
Note: 2. 20msec sine wave

### **Electrical Characteristics (Ta = 25^{\circ}C)**

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	$V_{F}$	_		0.55	V	I <sub>F</sub> = 1.0A
Reverse current	I <sub>R</sub>	_	_	2.0	mΑ	V <sub>R</sub> = 50V

#### **Main Characteristic**

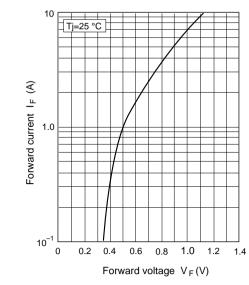


Fig.1 Forward current Vs. Forward voltage

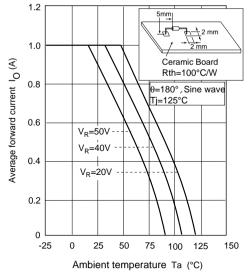


Fig.3 Average forward current Vs. Ambient temperature

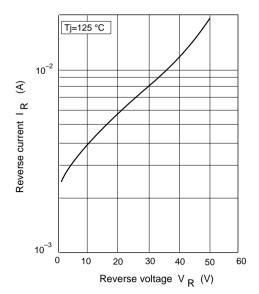


Fig.2 Reverse current Vs. Reverse voltage

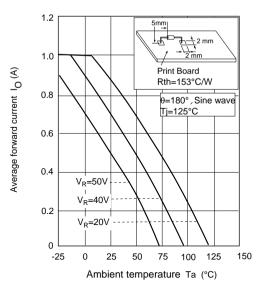


Fig.4 Average forward current Vs. Ambient temperature

#### **Main Characteristic**

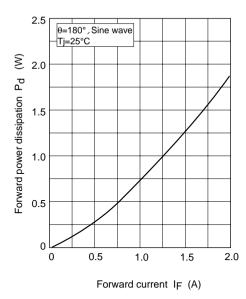


Fig.5 Forward power dissipation Vs. Forward current

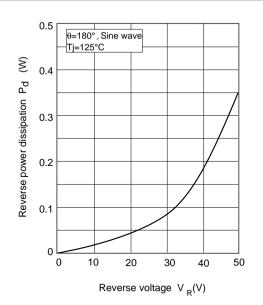


Fig.6 Reverse power dissipation Vs. Reverse voltage

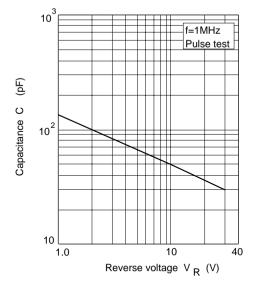
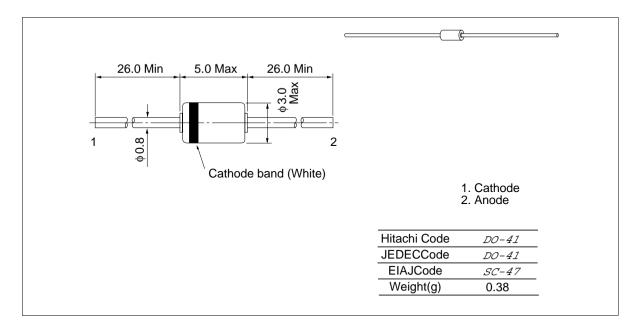


Fig.7 Capacitance Vs. Reverse voltage

### **Package Dimensions**

Unit: mm



#### **Cautions**

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