
HRP22

Silicon Schottky Barrier Diode for Rectifying

HITACHI

ADE-208-303A(Z)

Rev 1

Jul 1997

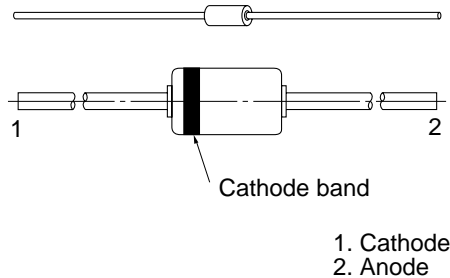
Features

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

Ordering Information

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

Outline



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	50	V
Non-Repetitive peak reverse voltage	V_{RSM}^{*1}	50	V
Average rectified current	I_o^{*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°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_F	—	—	0.55	V	$I_F = 1.0A$
Reverse current	I_R	—	—	2.0	mA	$V_R = 50V$

Main Characteristic

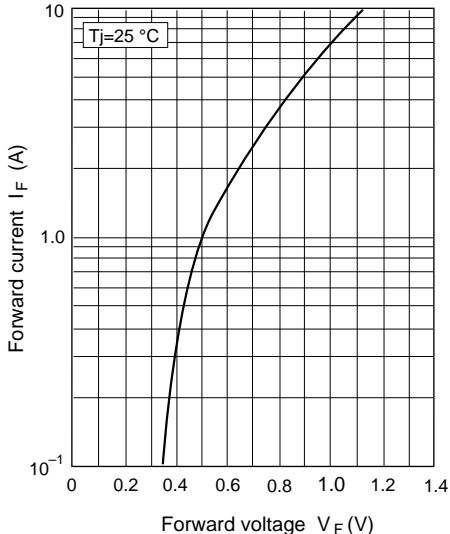


Fig.1 Forward current Vs. Forward voltage

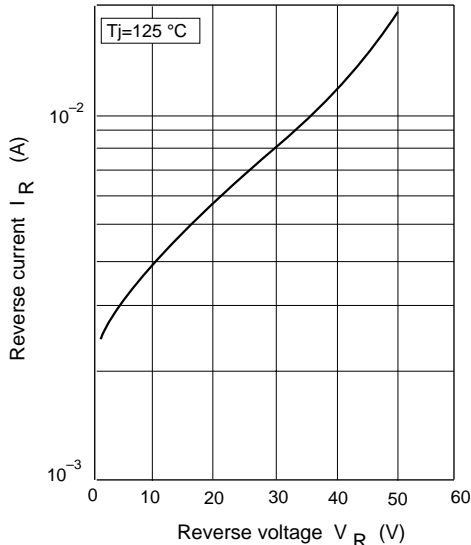


Fig.2 Reverse current Vs. Reverse voltage

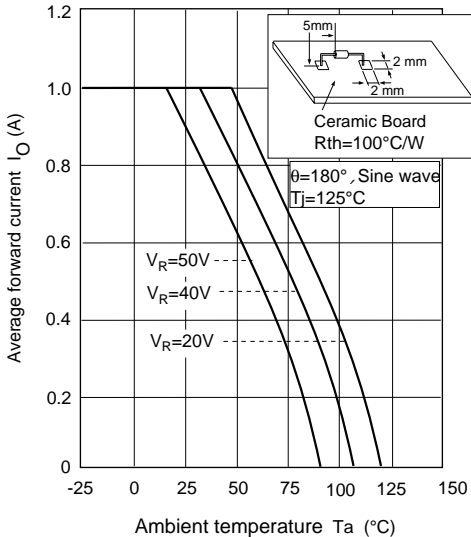


Fig.3 Average forward current Vs. Ambient temperature

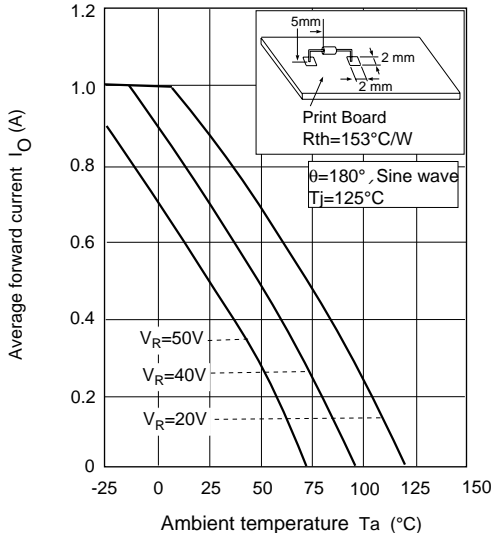


Fig.4 Average forward current Vs. Ambient temperature

Main Characteristic

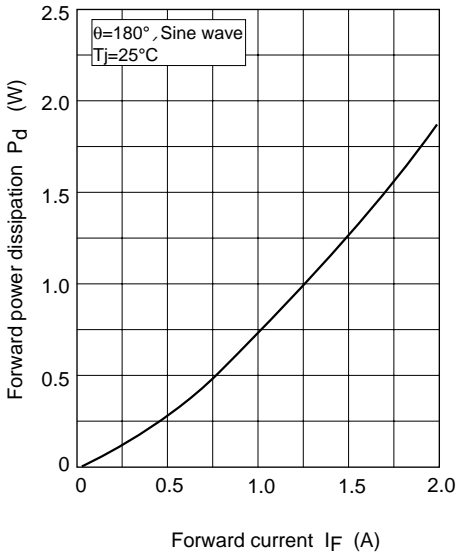


Fig.5 Forward power dissipation Vs. Forward current

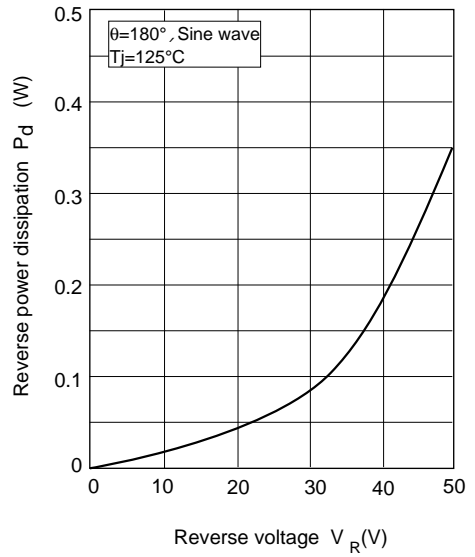


Fig.6 Reverse power dissipation Vs. Reverse voltage

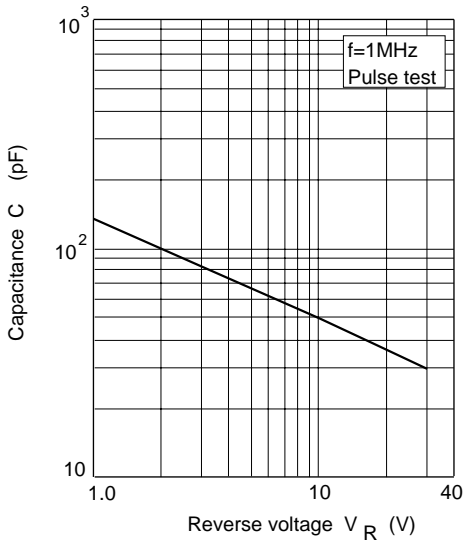
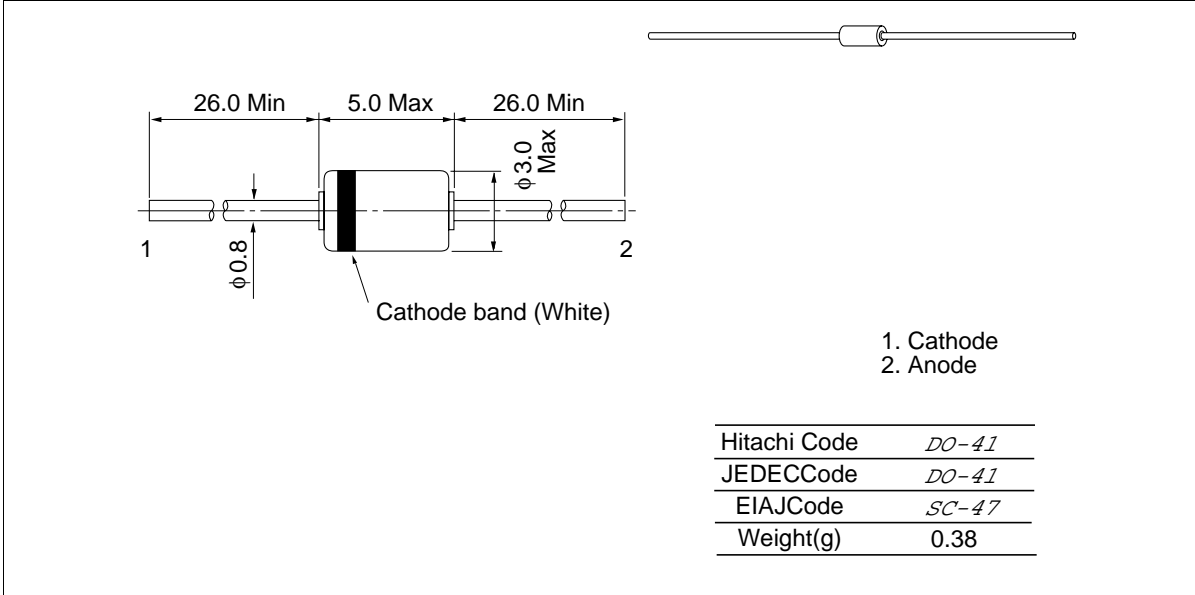


Fig.7 Capacitance Vs. Reverse voltage

Package Dimensions

Unit : mm



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