Silicon Schottky Barrier Diode for Rectifying

HITACHI

ADE-208-163D(Z) Rev 4 Jul. 1997

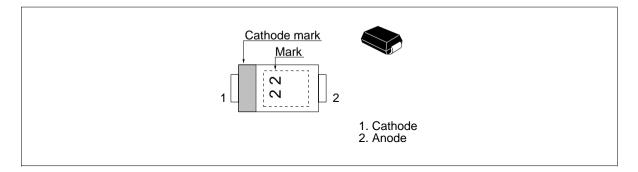
Features

- Good for high-frequency rectify.
- LRP structure ensures higher reliability.

Ordering Information

Туре No.	Laser Mark	Package Code
HRF22	22	LRP

Outline





Absolute Maximum Ratings (Ta = 25° C)

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	V _{RRM} ^{*1}	40	V
Average rectified current	_o *1	1.0	A
Non-Repetitive peak forward surge current	I _{FSM} ^{*2}	20	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40 to +125	٥C

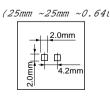
Note: 1. See from Fig.4 to Fig.7

Note: 2. 10msec half sine wave 1 pulse

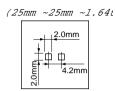
Electrical Characteristics (Ta = 25° C)

ltem	Symbol	Min	Тур	Мах	Unit	Test Condition
Forward voltage	V _F	_	_	0.55	V	I _F = 1.0A
Reverse current	I _R	—	—	1.0	mA	V _R = 40V
ESD-Capability	—	150	—	_	V	C=200pF , R=0 Ω , Both forward and reverse direction 1 pulse.
Thermal resistance	Rth(j-a)	_	_	108	°C/W	Alumina board ¹
		_		157		Print board ^{*2}

Note: 1. Alumina board



Note: 2. Print board



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Main Characteristic

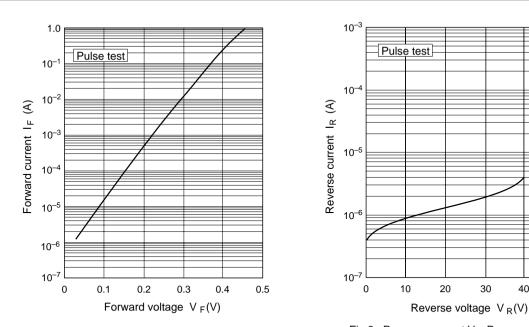
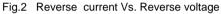


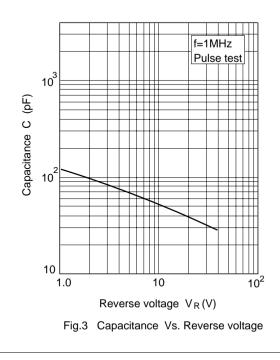
Fig.1 Forward current Vs. Forward voltage



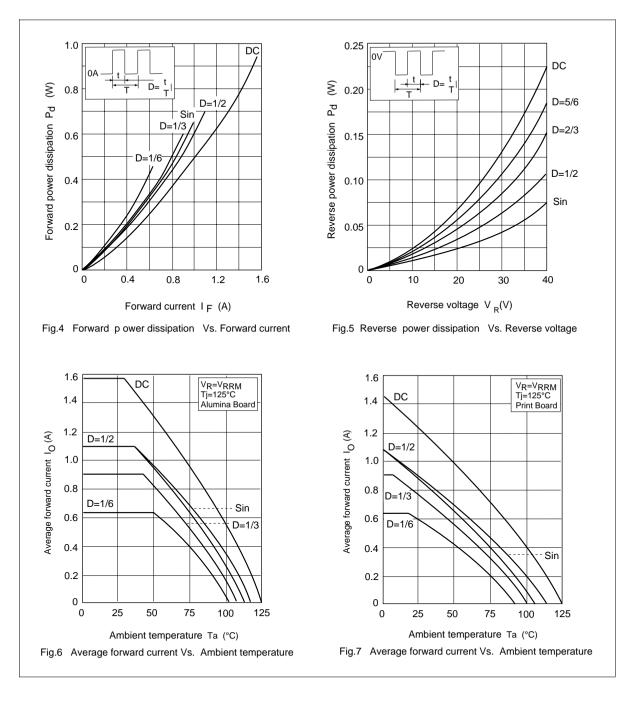
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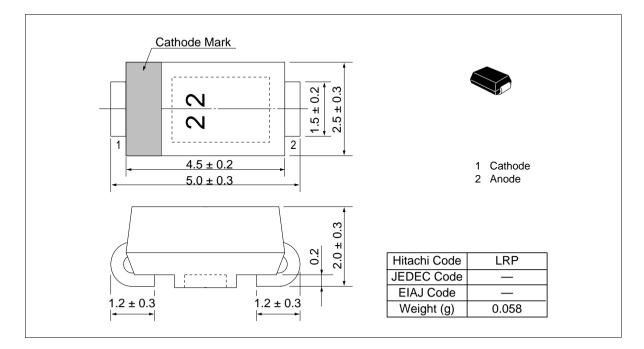
Main Characteristic



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Package Dimensions

Unit : mm



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