
HSM125WK

Silicon Schottky Barrier Diode for Battery Switch

HITACHI

ADE-208-188 (Z)
Preliminary, Rev. 0
Oct. 1993

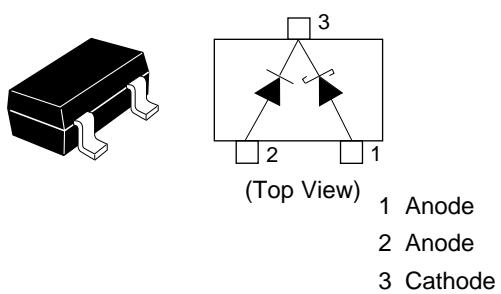
Features

- The HSM125WK has two different (V_F - I_F) chips, and can change the main battery to the backup battery automatically.
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSM125WK	S13	MPAK

Pin Arrangement



HSM125WK

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value Pin 1-3	Value Pin 2-3	Unit
Peak reverse voltage	V _{RM}	20	20	V
Forward current	I _F *	500	100	mA
Junction temperature	T _j	125	125	°C
Storage temperature	T _{stg}	–55 to +125	–55 to +125	°C

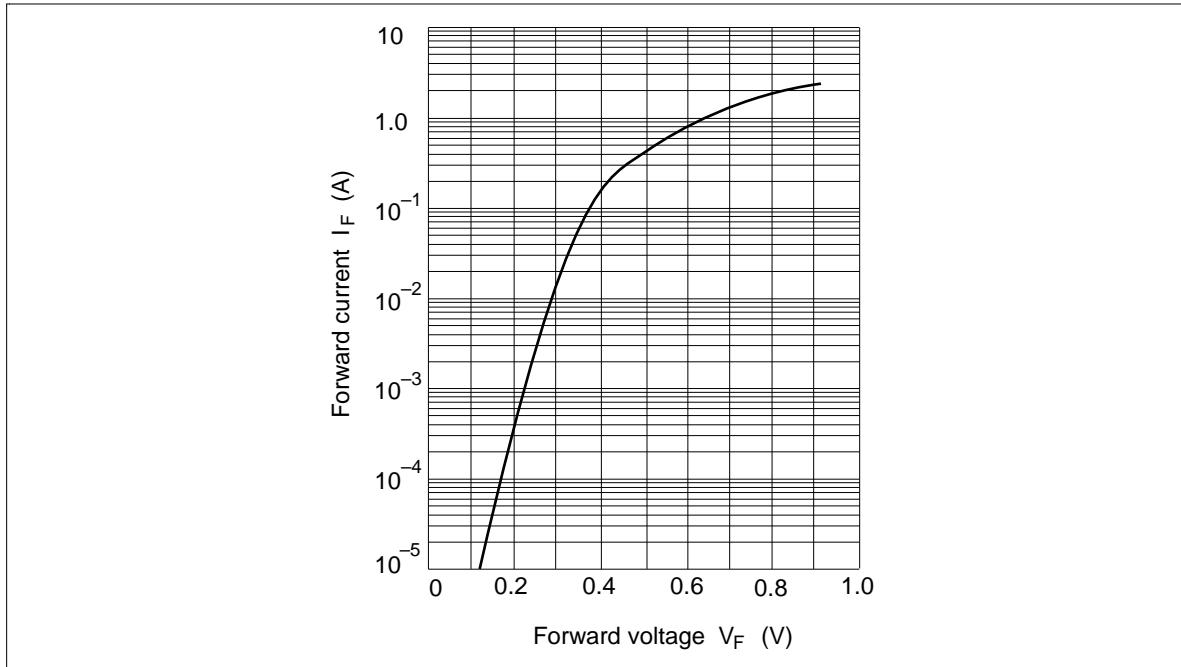
Note: Per one device

Electrical Characteristics (Ta = 25°C)

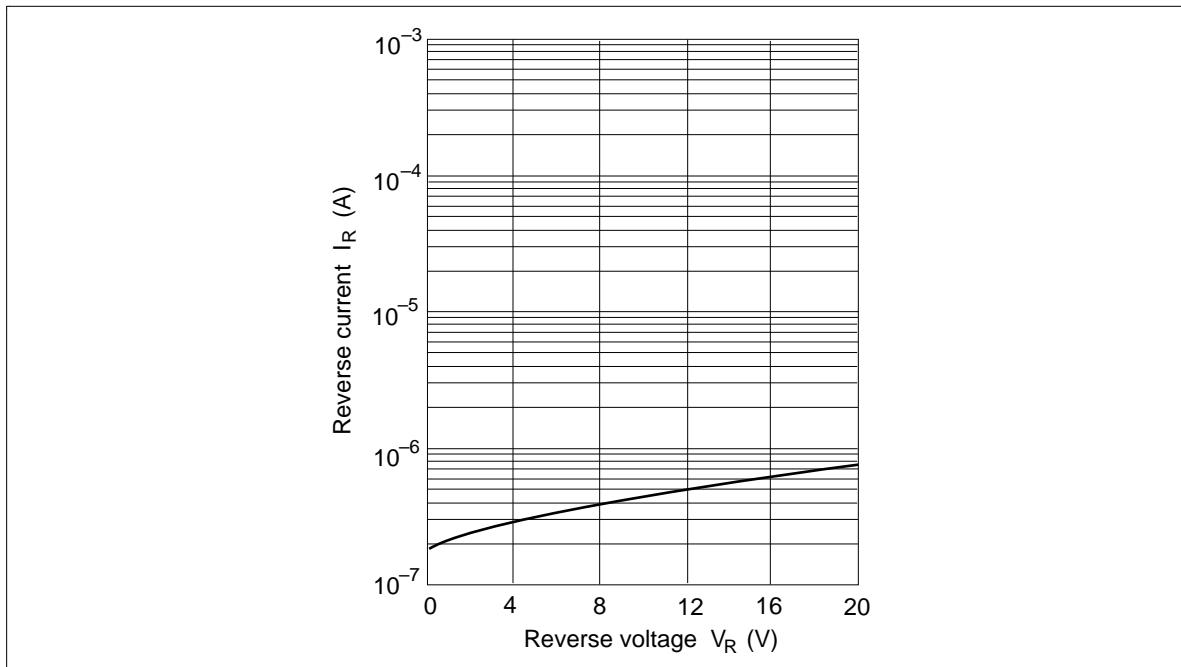
Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V _{F1}	Pin 1-3	0.1	—	0.3	V
		Pin 2-3	0.5	—	0.8	I _F = 1mA
Forward voltage	V _{F2}	Pin 1-3	—	—	0.55	V
		Pin 2-3	—	—	1.2	I _F = 500mA
Reverse current	I _R	Pin 1-3	—	—	30	μA
		Pin 2-3	—	—	0.1	V _R = 20V
ESD Capability	—	200	—	—	V	*C = 200pF, Both forward and reverse direction 1 pulse

Note: Failure Criterion; Pin 1-3 (I_R ≥ 60μA at V_R = 20V), Pin 2-3 (I_R ≥ 0.2μA at V_R = 20V)

Forward current Vs. Forward voltage (Pin 1-3)

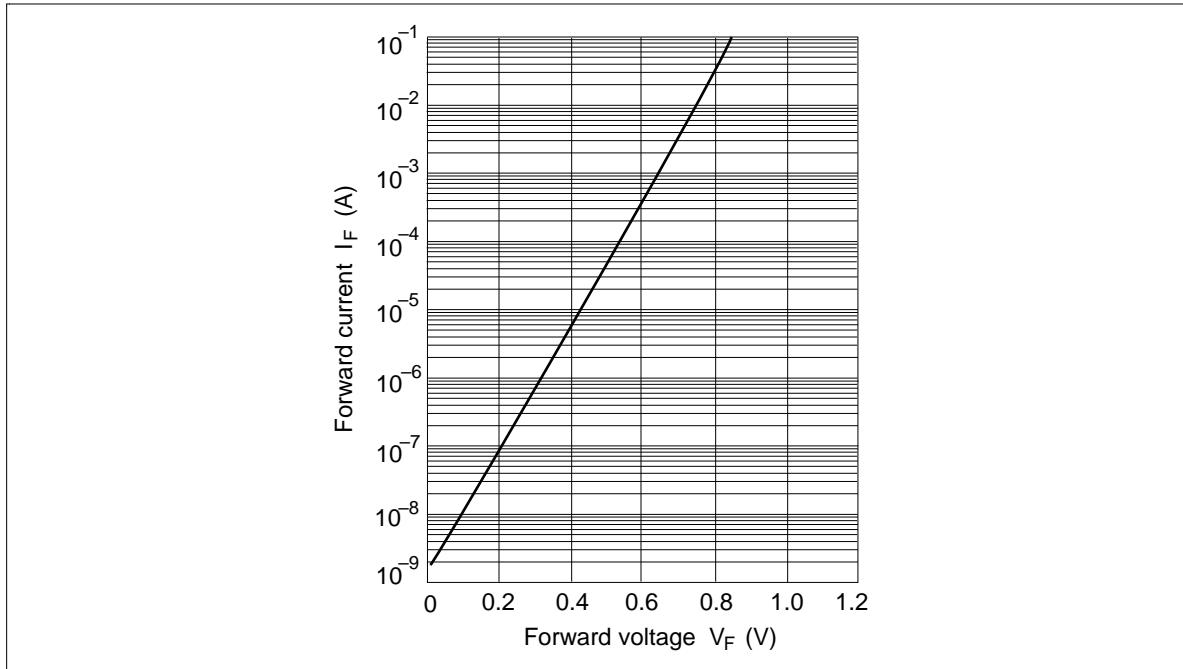


Reverse current Vs. Reverse voltage (Pin 1-3)

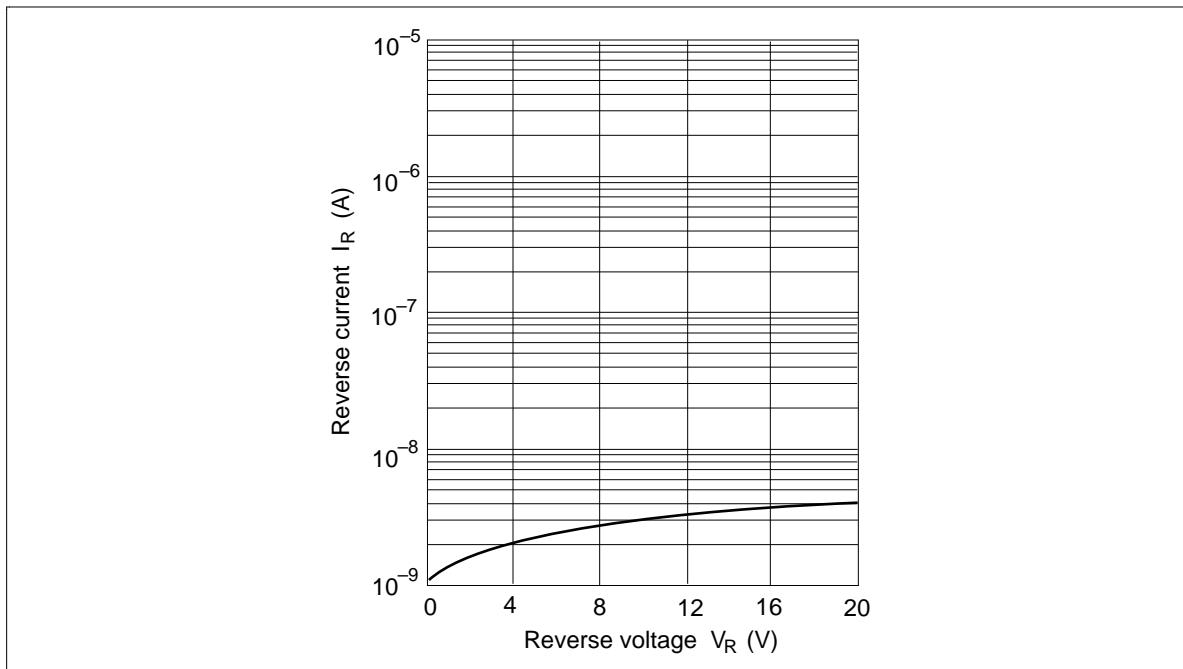


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Forward current Vs. Forward voltage (Pin 2-3)



Reverse current Vs. Reverse voltage (Pin 2-3)



Package Dimensions