

HSM88AS

Silicon Schottky Barrier Diode for Balanced Mixer

REJ03G0135-0600Z
(Previous: ADE-208-046E)
Rev.6.00
Nov.06.2003

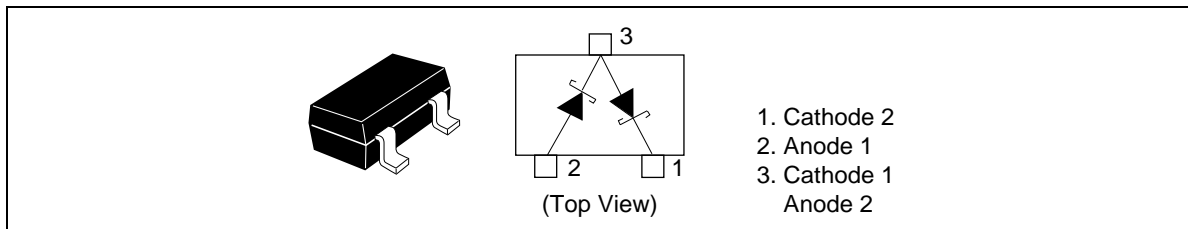
Features

- Proof against high voltage.
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSM88AS	C1	MPAK

Pin Arrangement



HSM88AS

Absolute Maximum Ratings

(T_a = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V _R	10	V
Average rectified current	I _O * ¹	15	mA
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

Note: 1. Per one device

Electrical Characteristics *¹

(T_a = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V _{F1}	0.35	—	0.42	V	I _F = 1 mA
	V _{F2}	0.50	—	0.58		I _F = 10 mA
Reverse current	I _{R1}	—	—	0.2	μA	V _R = 2 V
	I _{R2}	—	—	10		V _R = 10 V
Capacitance	C	—	—	0.85	pF	V _R = 0 V, f = 1 MHz
Capacitance deviation	ΔC	—	—	0.10	pF	V _R = 0 V, f = 1 MHz
Forward voltage deviation	ΔV _F	—	—	10	mV	I _F = 10 mA
ESD-Capability * ²	—	30	—	—	V	C = 200 pF, R = 0 Ω, Both forward and reverse direction 1 pulse.

Notes: 1. Per one device

2. Failure criterion ; I_R ≥ 0.4 μA at V_R = 2 V

Main Characteristics

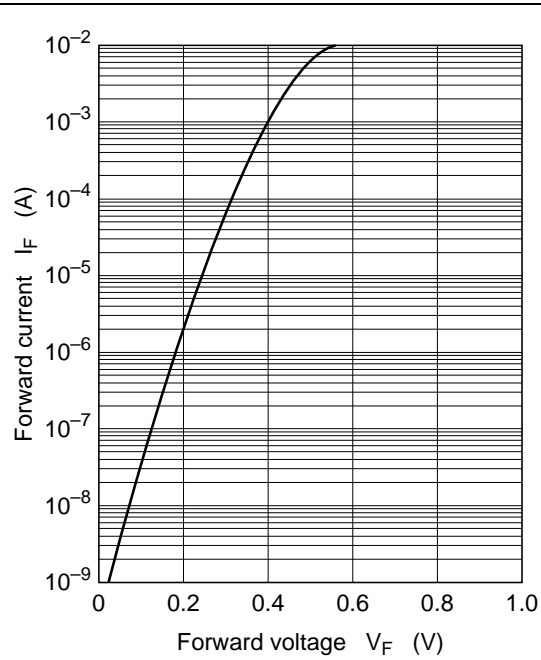


Fig.1 Forward current vs. Forward voltage

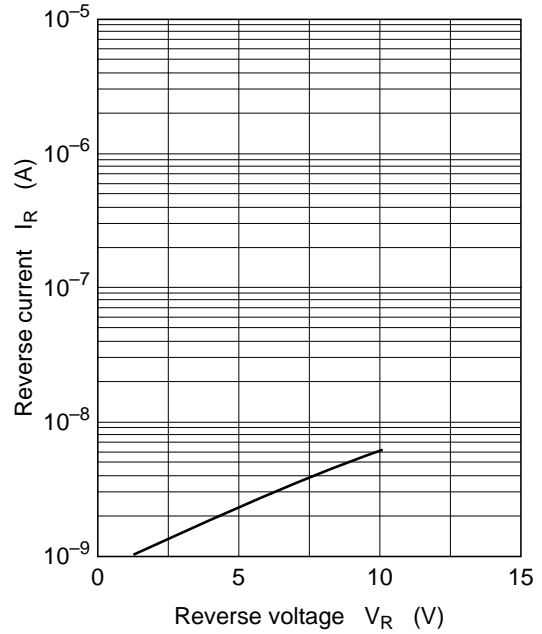


Fig.2 Reverse current vs. Reverse voltage

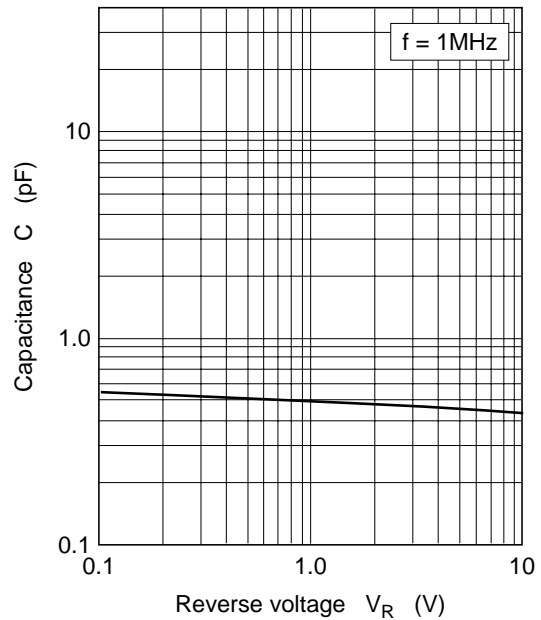
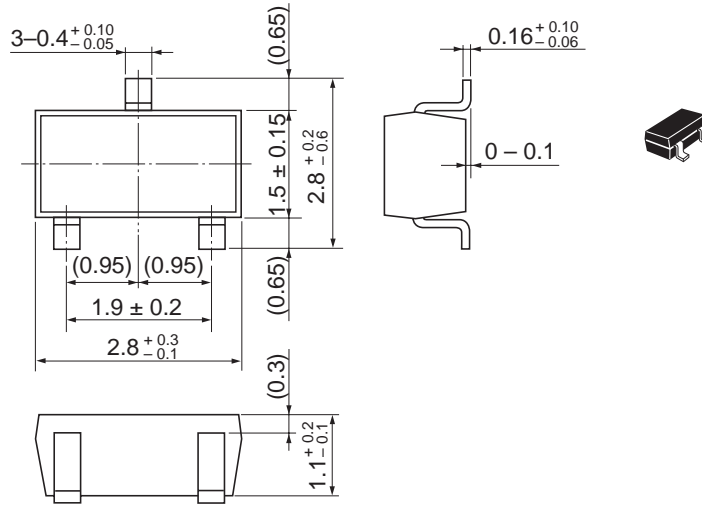


Fig.3 Capacitance vs. Reverse voltage

Package Dimensions

As of January, 2003
Unit: mm



Package Code	MPAK
JEDEC	—
JEITA	Conforms
Mass (reference value)	0.011 g

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