HSM88ASR

Silicon Schottky Barrier Diode for Balanced Mixer

HITACHI

ADE-208-047D (Z)

Rev. 4 Jul. 1998

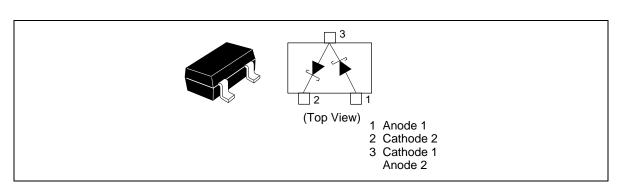
Features

- 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
HSM88ASR	C3	MPAK

Outline





HSM88ASR

Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Value	Unit
Reverse voltage	V_{R}	10	V
Average rectified current	I _o	15	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

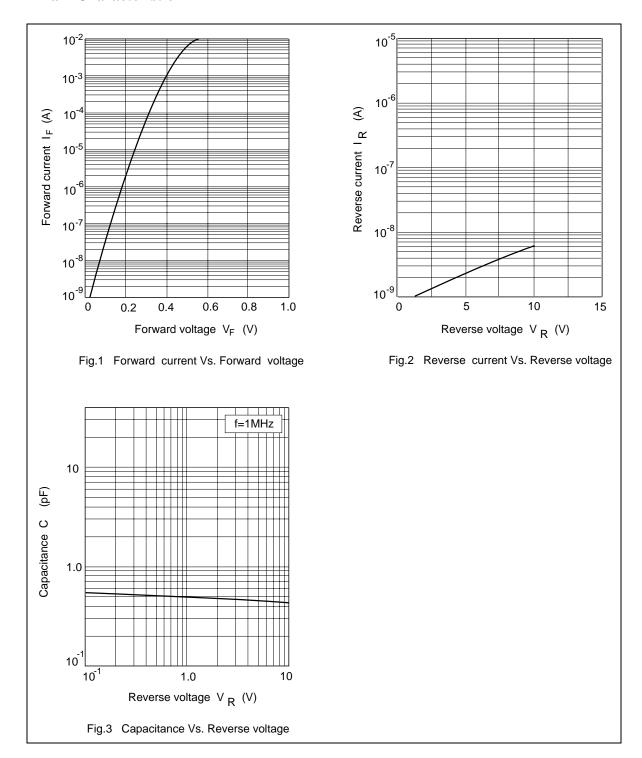
Electrical Characteristics

 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V_{F1}	350	_	420	mV	I _F = 1 mA
	V _{F2}	500	_	580	_	I _F = 10 mA
Reverse current	I _{R1}	_	_	0.2	μΑ	$V_R = 2V$
	I _{R2}	_	_	10	_	V _R = 10V
Capacitance	С	_	_	0.85	pF	$V_R = 0V, f = 1 MHz$
Capacitance deviation	ΔC	_	_	0.10	pF	$V_R = 0V, f = 1 MHz$
Forward voltage deviation	$\Delta V_{_{\rm F}}$	_	_	10	mV	I _F = 10 mA
ESD-Capability ⁻¹	_	30	_	_	V	C=200pF , Both forward and reverse direction 1 pulse.

Notes 1. Failure criterion ; IR ≥ 400nA at VR =2 V

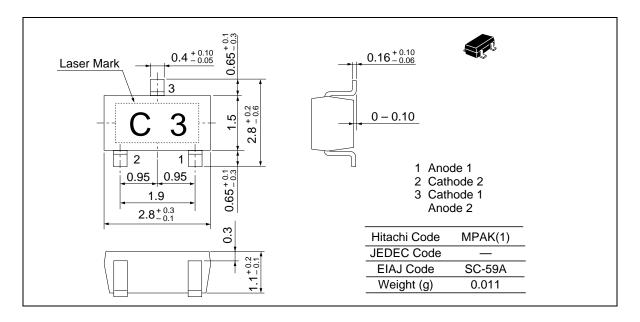
Main Characteristic



HSM88ASR

Package Dimensions

Unit: mm



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