HSM88ASR

Silicon Schottky Barrier Diode for Balanced Mixer

HITACHI

ADE-208-047D (Z) Rev 4 Jul 1998

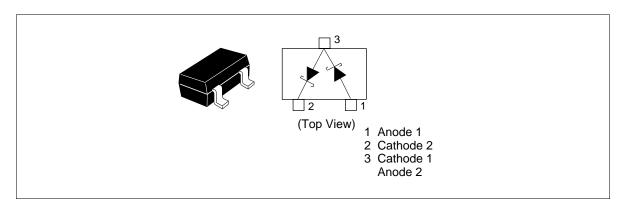
Features

- 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	Io	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	ΔV_{F}	_	_	10	mV	I _F = 10 mA
ESD-Capability ¹	Å۱	30	_	_	V	C=200pF , Both forward and reverse direction 1 pulse.

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

Main Characteristic

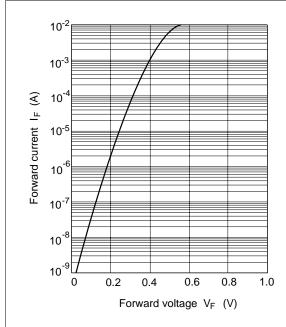


Fig.1 Forward current Vs. Forward voltage

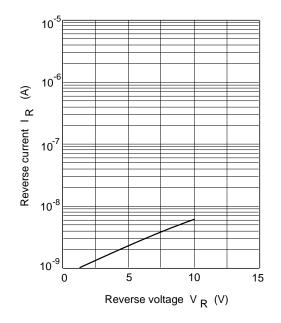


Fig.2 Reverse current Vs. Reverse voltage

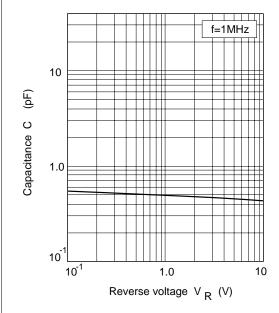
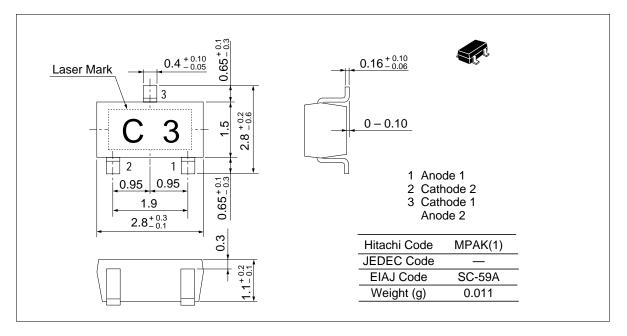


Fig.3 Capacitance Vs. Reverse voltage

HSM88ASR

Package Dimensions

Unit: mm



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