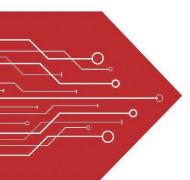
# MSKSEMI















**ESD** 

**TVS** 

**TSS** 

MOV

**GDT** 

**PLED** 

Product data sheet

www.msksemi.com

#### **Feature**

Ultra Small mold type. (DFN1006)

Low I<sub>R</sub>

High reliability.

#### **Applications**

Low current rectification

#### Construction

Silicon epitaxial planar

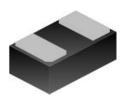
#### **Mechanical Characteristics**

Mounting position: Any

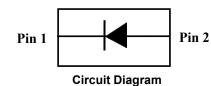
Device meets MSL 1 requirements Qualified max reflow temperature:260 °C

## Electrical characteristics per line@25℃





**DFN1006** 



Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	0.35	0.40	V	I <sub>F</sub> =100mA
Forward voltage	VF	-	0.45	0.50	V	I <sub>F</sub> =500mA
Forward voltage	VF	-	0.55	0.60	V	I <sub>F</sub> =1A
Reverse current	I <sub>R</sub>	-	-	0.1	mA	V <sub>R</sub> =40V
Junction Capacitance	Cj	-	90	-	pF	V <sub>R</sub> =0V f =1MHz

#### Absolute maximum rating@25℃

Parameter	Symbol	limits	Unit
Reverse voltage(repetitive peak)	V <sub>RM</sub>	45	V
Reverse voltage (DC)	V <sub>R</sub>	40	V
Average rectified forward current	lo	1	А
Non-Repetitive Peak Forward Surge Current (8.3ms			
single half sine-wave superimposed o	I <sub>FSM</sub>	5	A
rated load)			

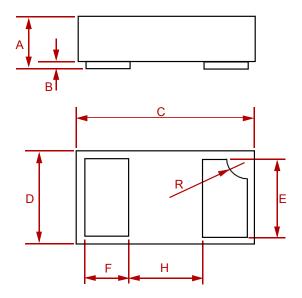
Parameter	Symbol	limits	Unit
Repetitive peak forward current ( $t_p \le 1 ms; \ \delta \le 0.25$ )	I <sub>FRM</sub>	5	А
Power Dissipation	PD	400	mW
Thermal resistance <sup>1)</sup>	Reja	310	°C/W
Operating Junction temperature Range	T <sub>j</sub>	-55 to 125	℃
Storage temperature	T <sub>stg</sub>	-55 to 125	℃

Note1:FR 4 PCB, minimum recommended pad layout.



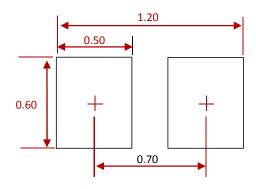






Direc	Inc	hes	Millimeters		
Dim	MIN	MAX	MIN	MAX	
Α	0.0125	0.02	0.32	0.52	
В	0.000	0.002	0.00	0.05	
С	0.037	0.043	0.95	1.080	
D	0.022	0.027	0.55	0.680	
E	0.016	0.024	0.40	0.60	
F	0.008	0.012	0.20	0.30	
Н	0.015Typ.		0.40Typ.		
R	0.001	0.005	0.05	0.15	

#### **Suggested Pad Layout**



#### NOTES:

- 1. CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 2. THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY. CONSULT YOUR MANUFACTURING GROUP TO ENSURE YOUR COMPANY'S MANUFACTURING GUIDELINES ARE MET.

#### **REEL SPECIFICATION**

P/N	PKG	QTY
NSR10404NX-MS	DFN1006	10000



Semiconductor

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