

# ON Semiconductor DATA SHEET

# DSM10G

\_ Diffused Junction Silicon Diode

# 1.0A Power Rectifier

### **Features**

• Facilitates automatic mounting and miniaturization in end products.

Peak reverse voltage: V<sub>RM</sub>=600V.
Average output current: I<sub>O</sub>=1.0A.

# **Specifications**

## Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	VRM		600	V
Average Output Current	Ю	50Hz sine wave, mounted on an alumina board	1.0	А
		Load resistor, mounted on a PCB	0.75	Α
Surge Forward Current	IFSM	50Hz sine wave, non-repetitive, 1 cycle peak value	25	Α
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

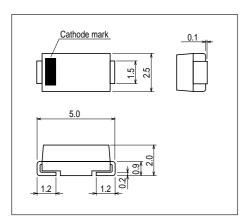
#### Electrical Characteristics at Ta=25°C

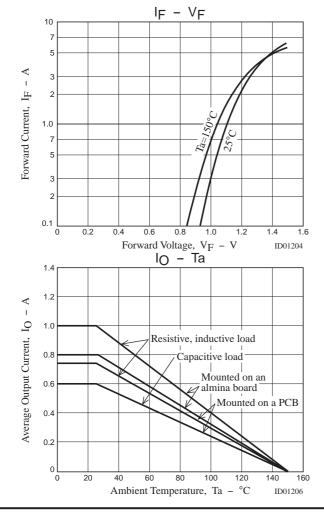
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Forward Voltage	VF	I <sub>F</sub> =1A			1.1	V
Reverse Current	IR	V <sub>R</sub> =V <sub>R</sub> M			10	μΑ
Thermal Resistance	θj-l	Junction-Lead			23	°C/W
	0.	Junction-Ambient Mounted on an alumina board			108	°C/W
	θј-а	Mounted on a PCB			157	°C/W

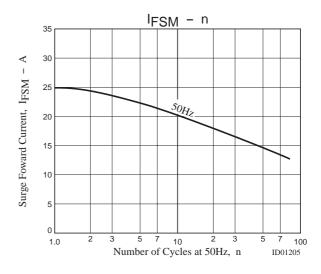
## **Package Dimensions**

unit : mm (typ)

1188







# DSM<sub>10</sub>G

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