



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ON Semiconductor®

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 : $V_{RM}=600V$.
- Average output current : $I_O=1.0A$.

Specifications

Absolute Maximum Ratings at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		600	V
Average Output Current	I_O	50Hz sine wave, mounted on an alumina board	1.0	A
		Load resistor, mounted on a PCB	0.75	A
Surge Forward Current	I_{FSM}	50Hz sine wave, non-repetitive, 1 cycle peak value	25	A
Junction Temperature	T_J		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

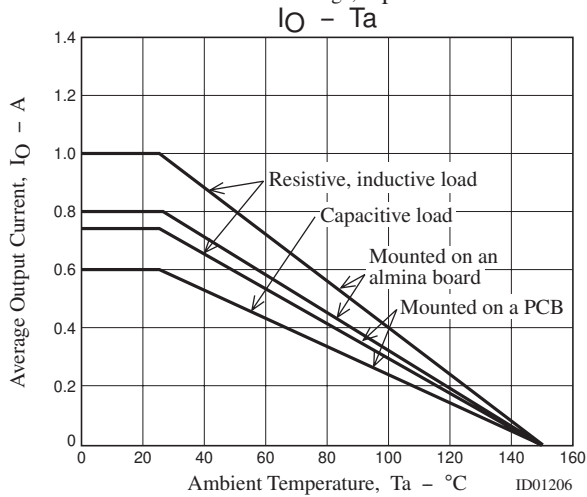
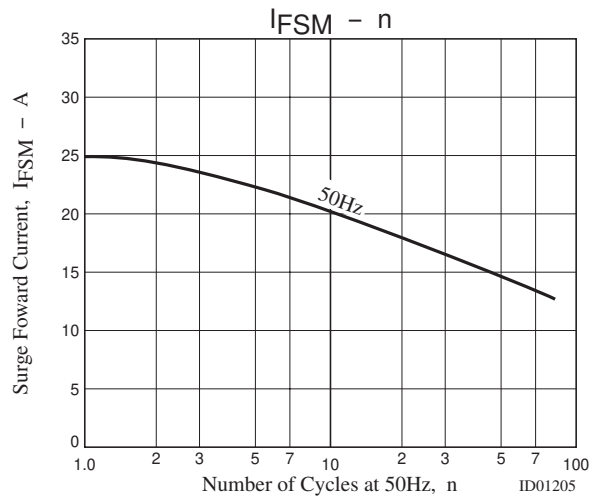
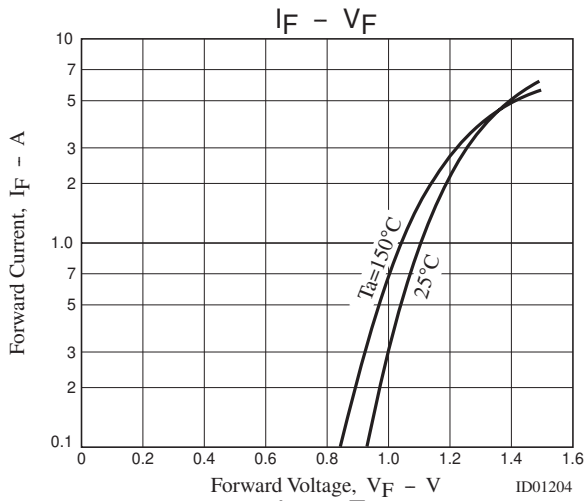
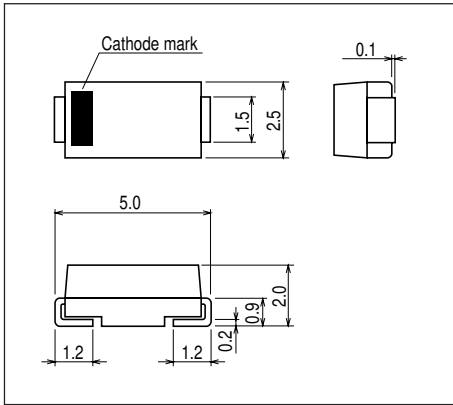
Electrical Characteristics at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=1A$			1.1	V
Reverse Current	I_R	$V_R=V_{RM}$			10	μA
Thermal Resistance	θ_{j-l}	Junction-Lead			23	$^\circ C/W$
		Junction-Ambient Mounted on an alumina board			108	$^\circ C/W$
		Mounted on a PCB			157	$^\circ C/W$

Package Dimensions

unit : mm (typ)

1188



DSM10G

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