



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	$^{\circ}C$

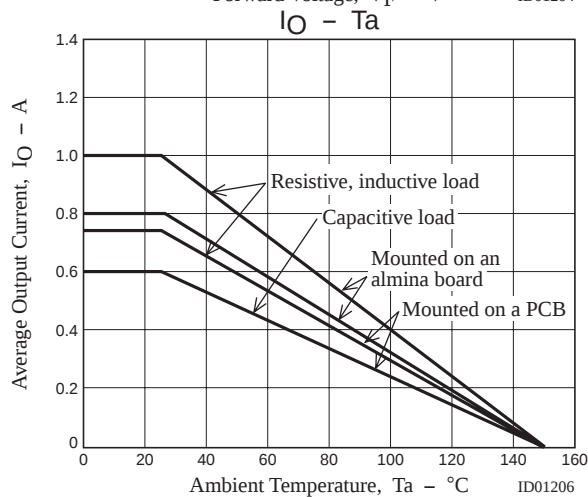
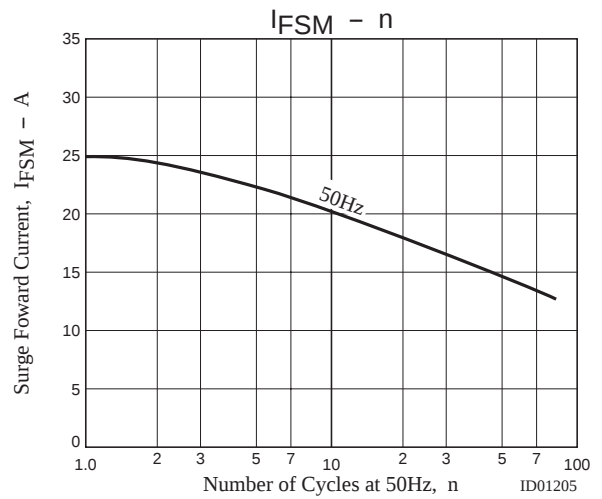
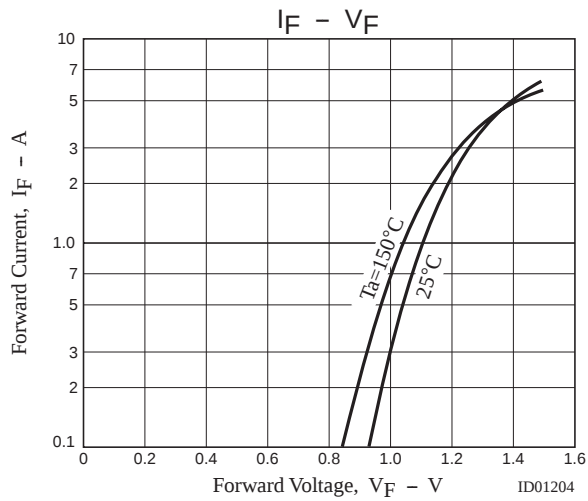
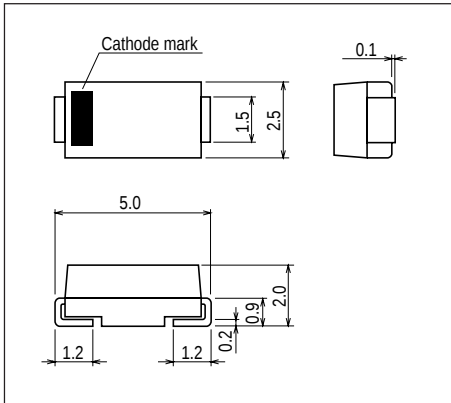
Electrical Characteristics at $T_a=25^{\circ}C$

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	$^{\circ}C/W$
	θ_{j-a}	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



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