

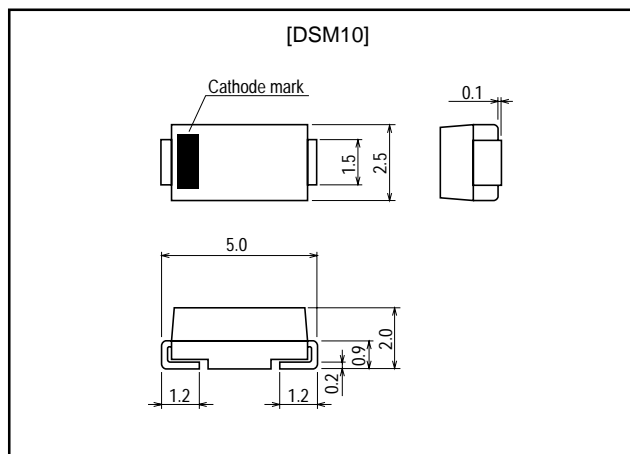
**DSM10****1.0A Power Rectifier****Features**

- Facilitates automatic mounting and miniaturization in end products.
- Peak reverse voltage :  $V_{RM}=200, 600V$ .
- Average rectified current :  $I_O=1.0A$ .

**Package Dimensions**

unit : mm

1188

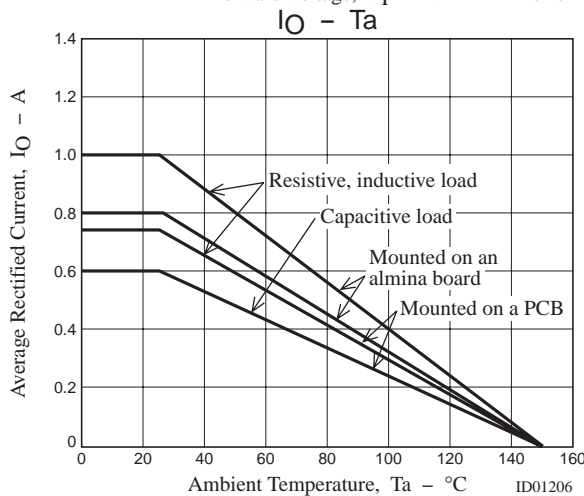
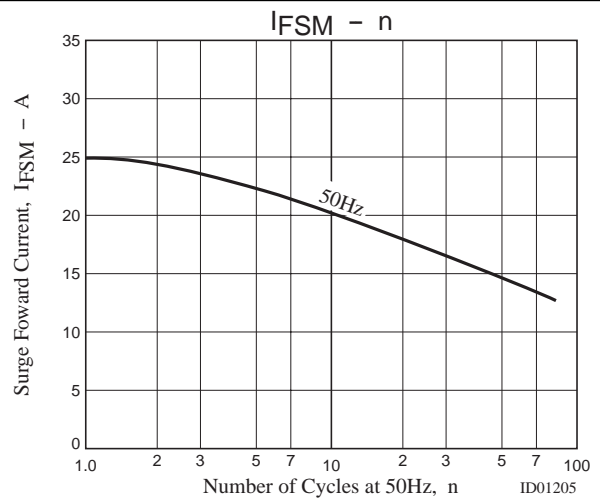
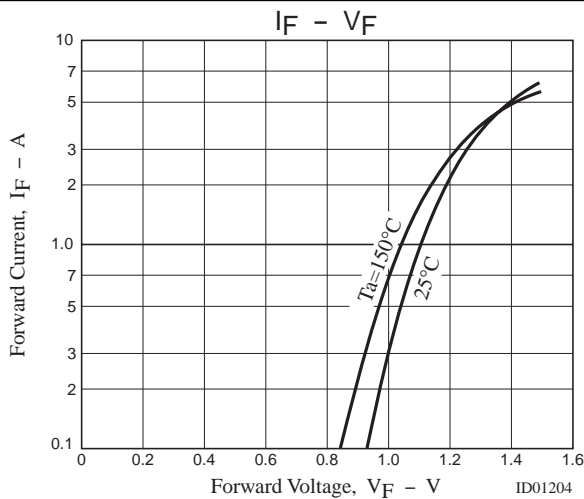
**Specifications****Absolute Maximum Ratings at  $T_a=25^{\circ}C$** 

Parameter	Symbol	Conditions	DSM10C	DSM10G	Unit
Peak Reverse Voltage	$V_{RM}$		200	600	V
Average Rectified 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	$\mu A$
Thermal Resistance	$\theta_{j-l}$	Junction-Lead			23	$^{\circ}C/W$
	$\theta_{j-a}$	Junction-Ambient Mounted on an alumina board			108	$^{\circ}C/W$
		Mounted on a PCB			157	$^{\circ}C/W$

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