



Silicon Diffused Junction Type

DSP10

Power Rectifier

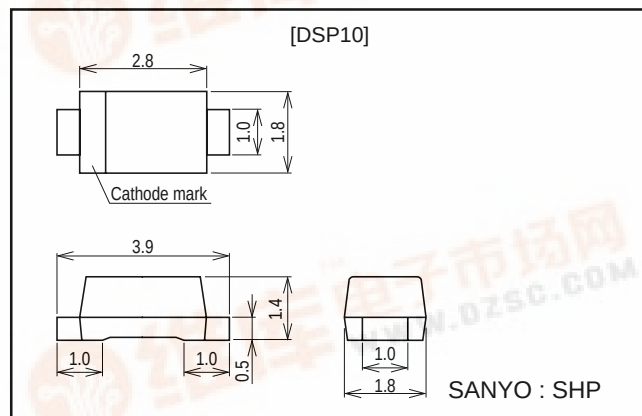
Features

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

Package Dimensions

unit : mm

1300



Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		600	V
Average Rectified Current	I_O	50Hz sine wave, mounted on an alumina board	1.0	A
		Load resistor (solder pad size 4mm $\times$ 20 μ mt)		
		Mounted PCB	0.64	A
		Load resistor (solder pad size 4mm $\times$ 20 μ mt)		
Surge Forward Current	I_{FSM}	50Hz sine wave	25	A
		non-repetitive, 1cycle peak value		
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	min	typ	max	Unit
Forward Voltage	V_F	$I_F=1.0A$			1.1	V
Reverse Current	I_R	$V_R=V_{RM}$			10	μA
Thermal Resistance	θ_{i-l}	Junction-Lead			20	$^\circ C/W$
	θ_{i-a}	Junction-Ambient, mounted on an alumina board (solder pad size 4mm $\times$ 20 μ mt)			108	$^\circ C/W$
		Mounted on PCB (solder pad size 4mm $\times$ 35 μ mt)			186	$^\circ C/W$
		Mounted on PCB (solder pad size 16mm $\times$ 35 μ mt)			142	$^\circ C/W$

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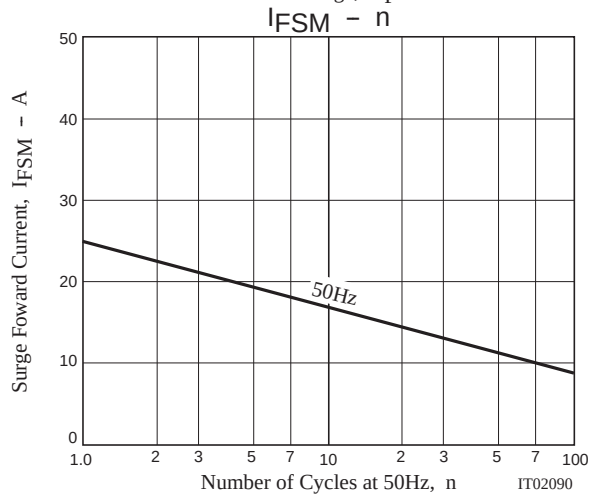
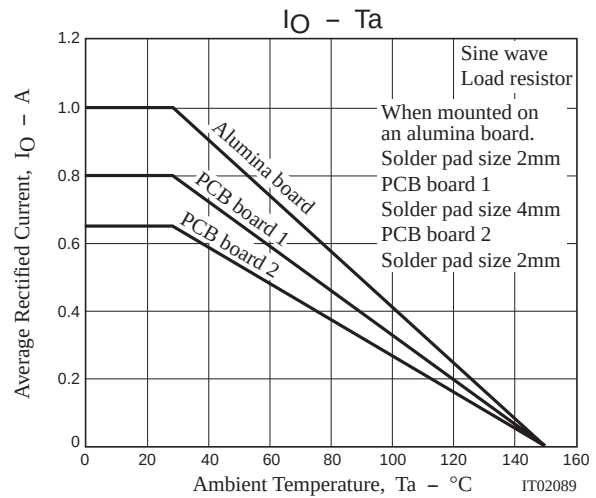
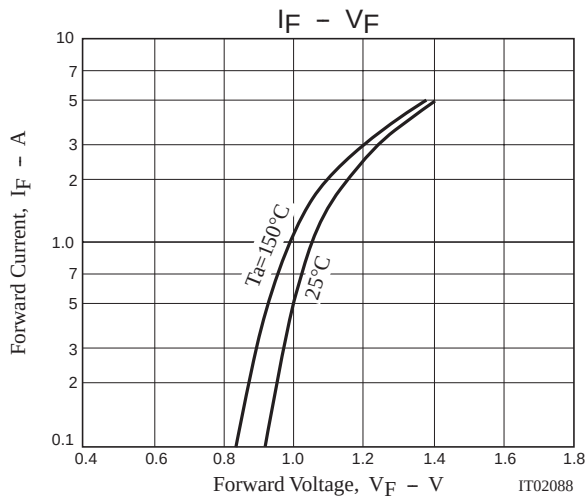
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SANYO Electric Co.,Ltd. Semiconductor Company

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DSP10



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