



SANYO Semiconductors

DATA SHEET

SBM30-03 — Schottky Barrier Diode

30V, 3A Rectifier

Features

- Supports automatic mounting and permits SBM30-03 applied sets to be made smaller.
- Low forward voltage (V_F max=0.4V).
- Average rectified current : I_O =3A.

Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		30	V
Average Rectified Current	I_O	50Hz sine wave, $T_a=25^\circ\text{C}$	2.1	A
		Load resistor, $T_c=100^\circ\text{C}$	3.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave non-repetitive, 1cycle peak value	30	A
Junction Temperature	T_j		150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=0.5\text{A}$			0.4	V
		$I_F=1.5\text{A}$			0.46	V
Reverse Current	I_R	$V_R=30\text{V}$			0.05	mA
Thermal Resistance	θ_{j-l}	Junction-Lead			20	$^\circ\text{C/W}$
	θ_{j-a}	Junction-Ambient, mounted on an almina board.			80	$^\circ\text{C/W}$

Marking : O

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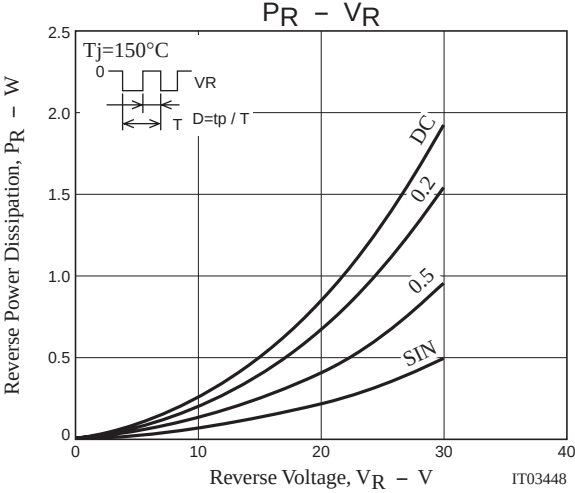
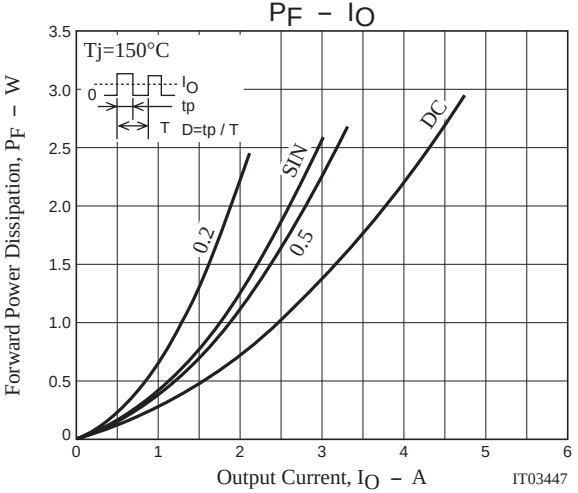
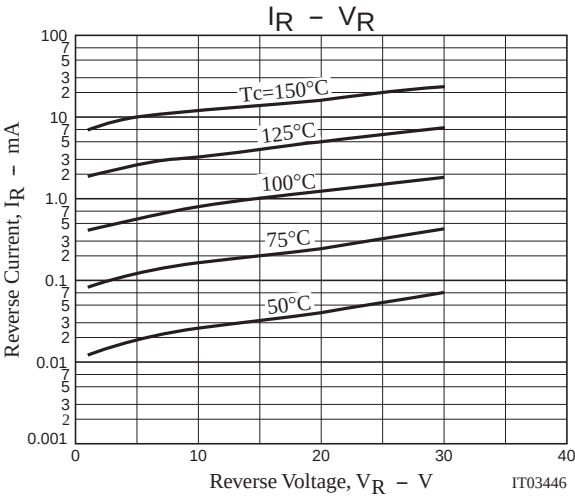
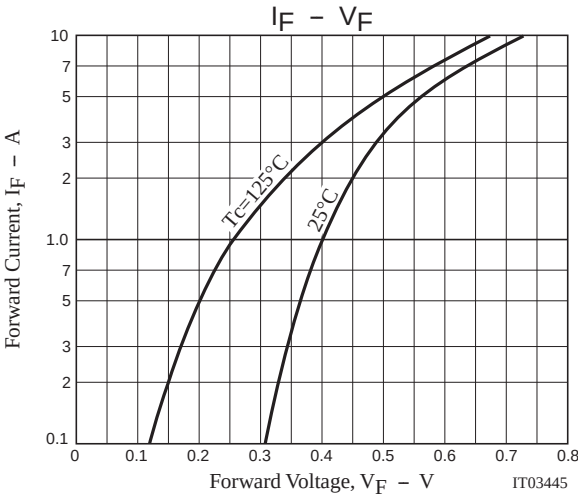
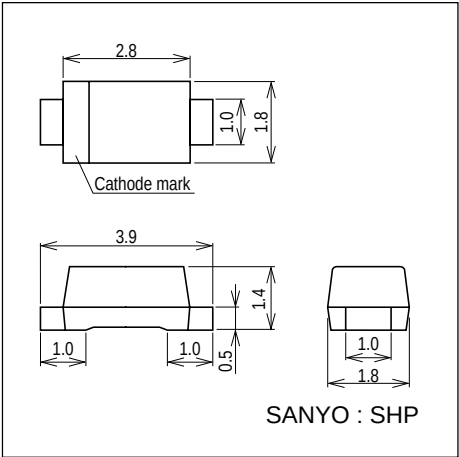
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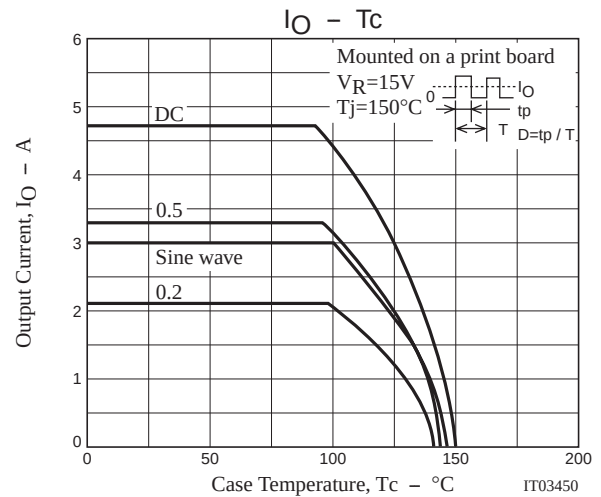
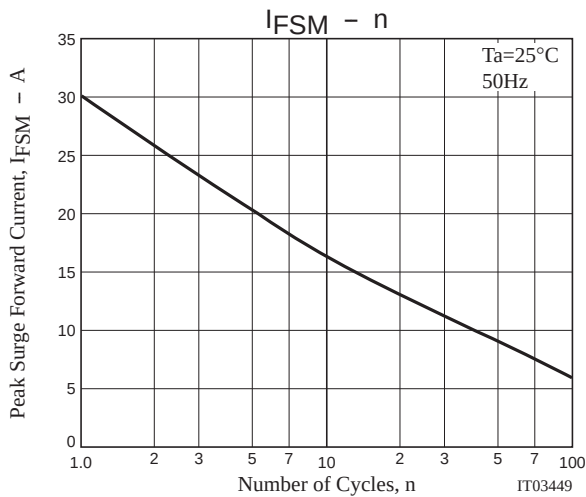
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Package Dimensions

unit : mm
1300





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