

SANYO	No.5683	SB05-18V
		Schottky Barrier Diode
180V, 500mA Rectifier		

Applications

- High frequency rectification (switching regulators, converters, choppers).

Features

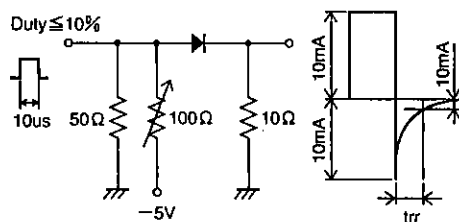
- Low forward voltage (V_F max = 0.85V).
- Fast reverse recovery time (t_{rr} max = 20ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

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

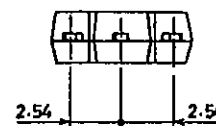
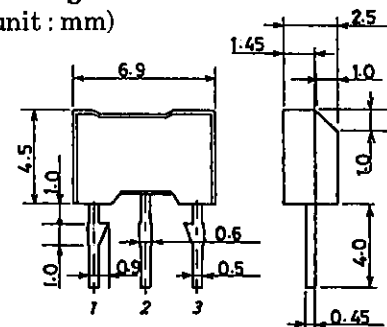
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	180	V
Non-repetitive Peak Reverse Surge Voltage	V_{RSM}	190	V
Average Output Current	I_O	50Hz resistive load, $T_a = 26^\circ\text{C}$	500 mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	10 A
Junction Temperature	T_j		125 $^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125 $^\circ\text{C}$

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

			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 500\mu\text{A}$	180			V
Forward Voltage	V_F	$I_F = 500\text{mA}$			0.85	V
Reverse Current	I_R	$V_R = 90\text{V}$			60	μA
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		45		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 100\text{mA}$			20	ns
Thermal Resistance	$R_{th\ j-a}$	See specified Test Circuit.			110	$^\circ\text{C/W}$

 t_{rr} Test Circuit**Package Dimensions 1289**

(unit : mm)

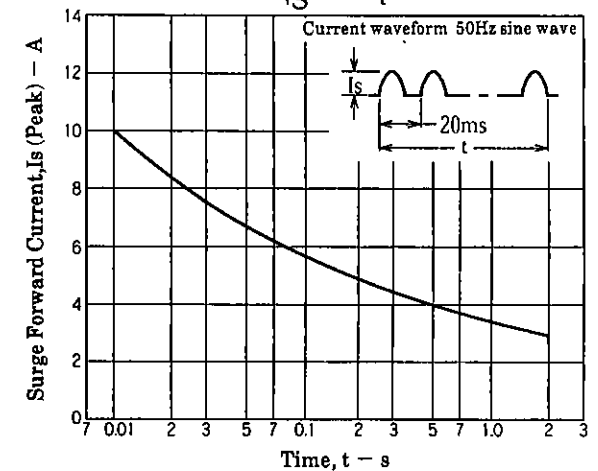
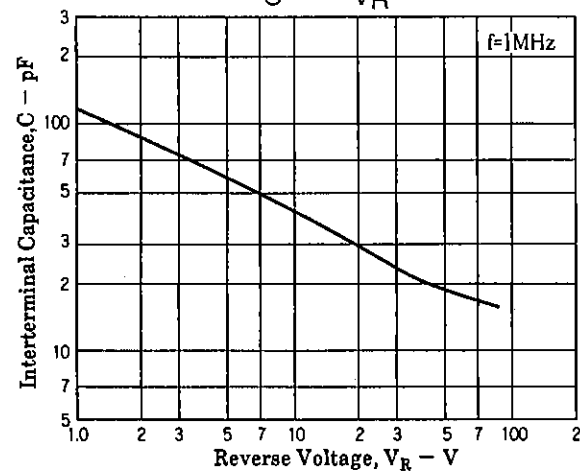
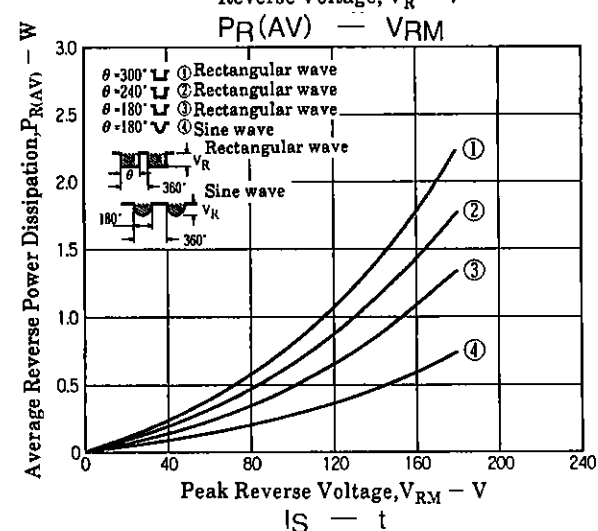
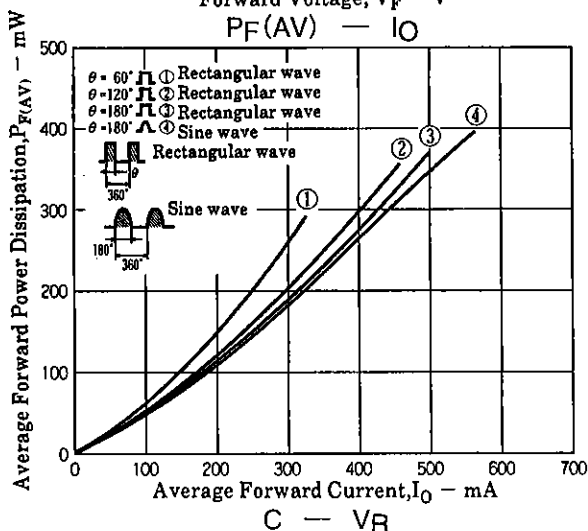
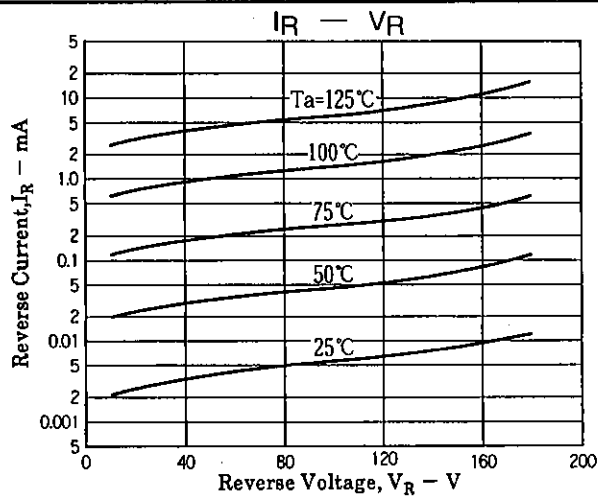
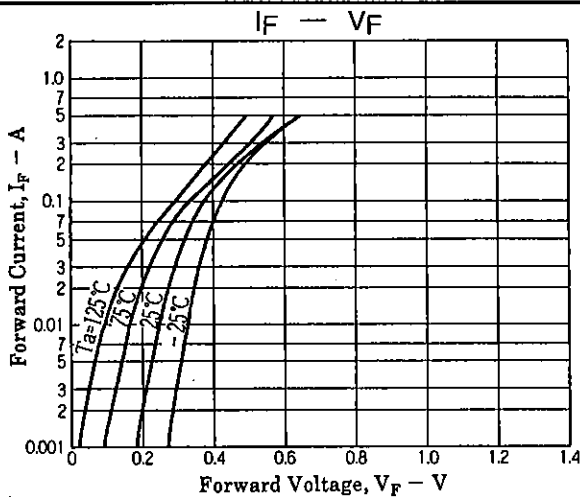


- 1: Anode
- 2: Cathode
- 3: No Contact

SANYO : NMP

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