

SANYO

No.2829A

SB10-09F

Schottky Barrier Diode

90V, 1A Rectifier

Applications

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

Features

- Low forward voltage (V_F max = 0.7V)
- 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 $T_a = 25^\circ\text{C}$

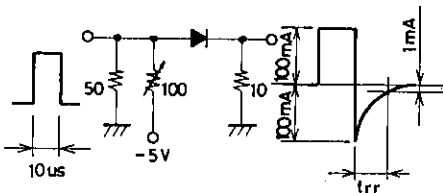
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	-90	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}	-95	V
Average Output Current	I_O	50Hz, resistive load, $T_c = 119^\circ\text{C}$	1 A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	10 A
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$
Storage 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	$I_R = -1\text{mA}$	-90			V
Forward Voltage	V_F	$I_F = 1\text{A}$			0.7	V
Reverse Current	I_R	$V_R = -45\text{V}$			-400	μA
Interterminal Capacitance	c	$V_R = -10\text{V}, f = 1\text{MHz}$		70		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 100\text{mA}$			20	ns
Thermal Resistance	R_{thj-c}	Junction-Case : Smoothed DC		4		$^\circ\text{C/W}$

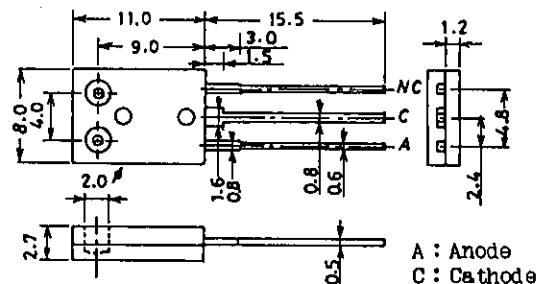
t_{rr} Test Circuit

Duty $\leq 10\%$

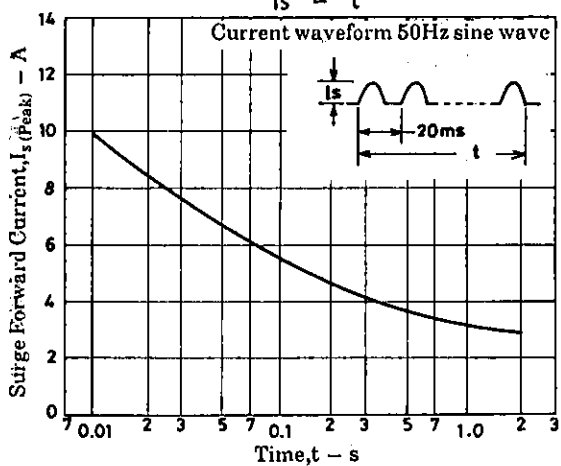
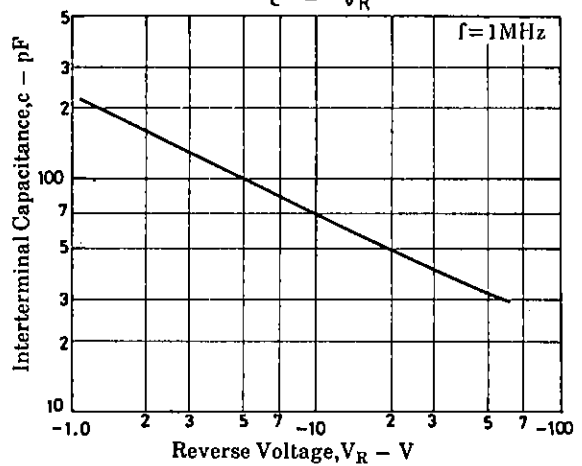
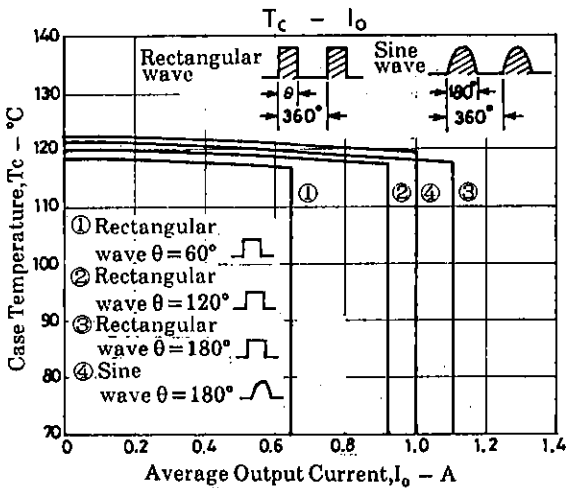
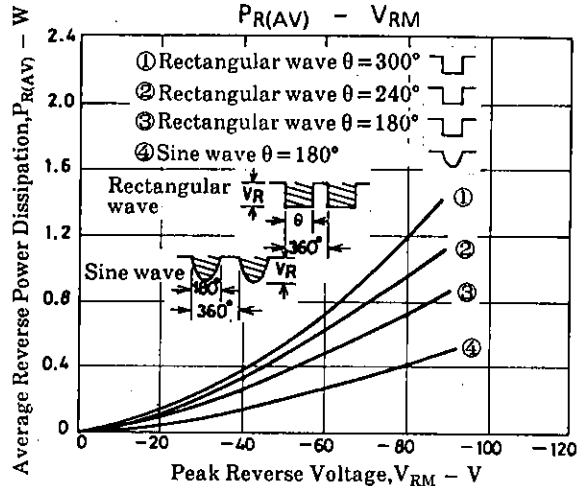
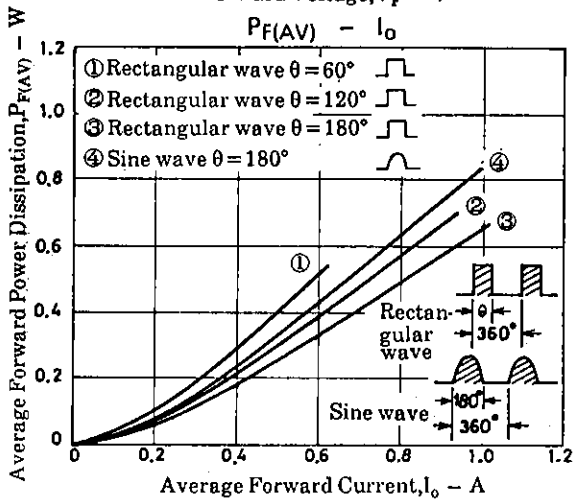
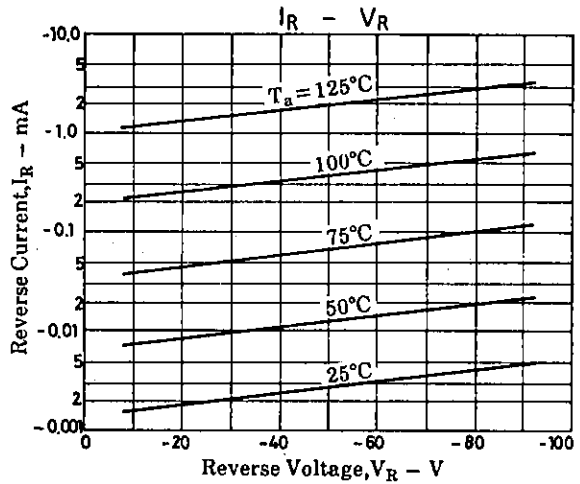
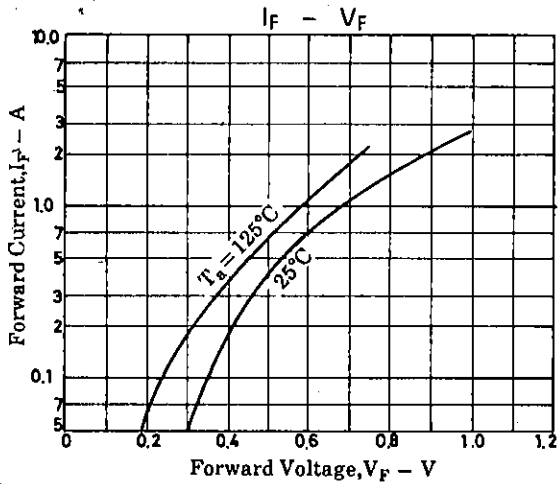


Unit (resistance: Ω)

Package Dimensions 1200
(unit: mm)



SANYO: TO126LP



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