

SANYO	No.2985	SB20-03P
		Schottky Barrier Diode 30V, 2A Rectifier

Applications

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

Features

- Low forward voltage (V_F max = 0.55V)
- 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 $T_a = 25^\circ\text{C}$

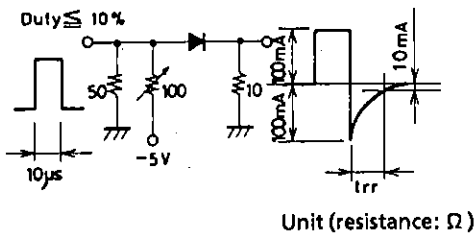
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	-30	V
Nonrepetitive Peak Reverse	V_{RSM}	-35	V
Surge Voltage			
Average Output Current	I_o	2	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	20 A
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

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

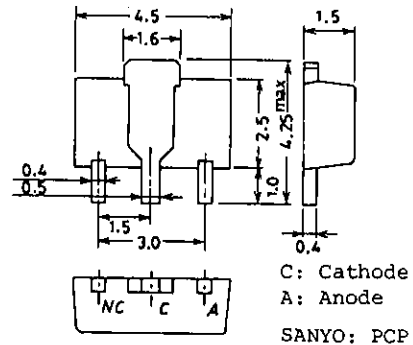
			min	typ	max	unit
Reverse Voltage	V_R	$I_R = -500\mu\text{A}$	-30			V
Forward Voltage	V_F	$I_F = 2\text{A}$			0.55	V
Reverse Current	I_R	$V_R = -15\text{V}$			-100	μA
Interterminal Capacitance	c	$V_R = -10\text{V}, f = 1\text{MHz}$		70		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 100\text{mA}$, See specified Test Circuit.			20	ns
Thermal Resistance (1)	R_{thj-a} (1)			300		$^\circ\text{C/W}$
Thermal Resistance (2)	R_{thj-a} (2)	Mounted on $250\text{mm}^2 \times 0.8\text{mm}$ ceramic board		110		$^\circ\text{C/W}$

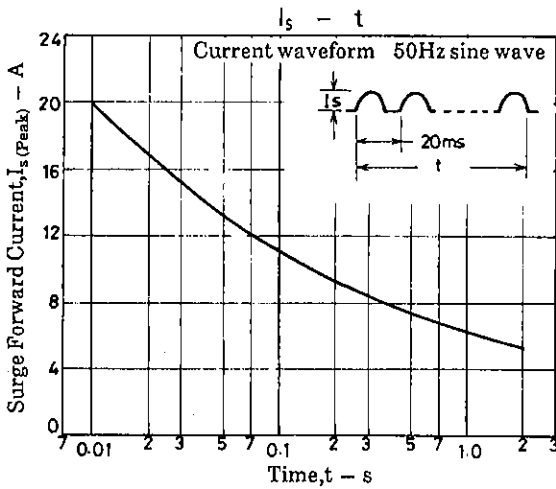
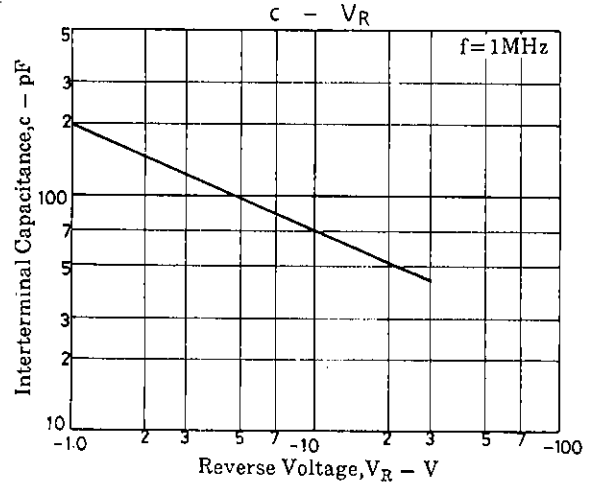
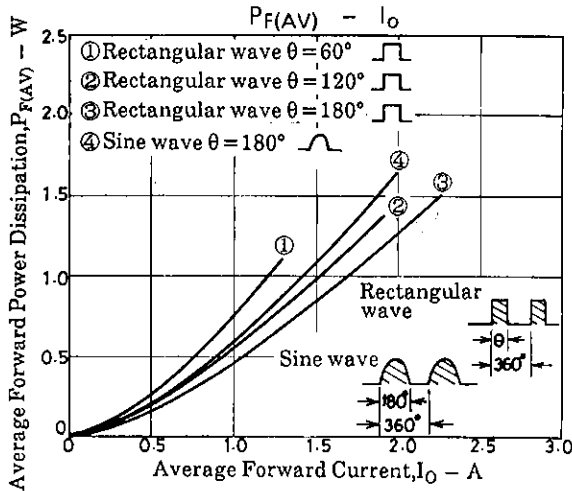
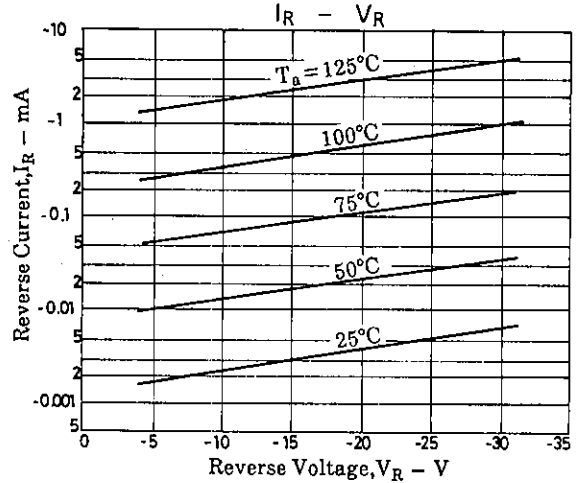
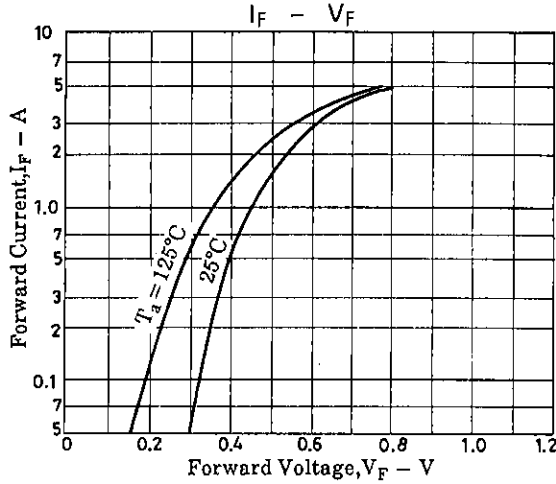
Marking : SC

t_{rr} Test Circuit



Package Dimensions 1163
(unit: mm)





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