

SANYO

No.2655A

SB05-18M

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

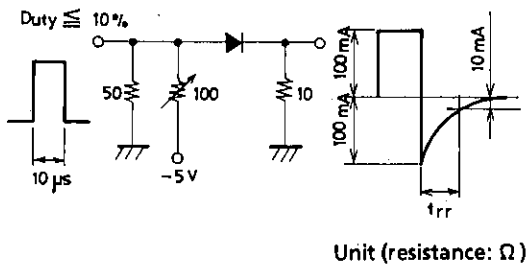
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

			unit
Repetitive Peak Reverse Voltage	V_{RRM}	-180	V
Nonrepetitive Peak Reverse Voltage	V_{RSM}	-190	V
Surge Voltage			
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	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

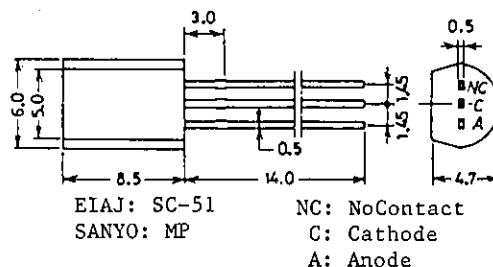
Electrical Characteristics at $T_a = 25^\circ\text{C}$

			min	typ	max	unit
Reverse Voltage	V_R	$I_R = -500\mu\text{A}$	-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
		See specified Test Circuit.				
Thermal Resistance	R_{thj-a}			85		$^\circ\text{C/W}$

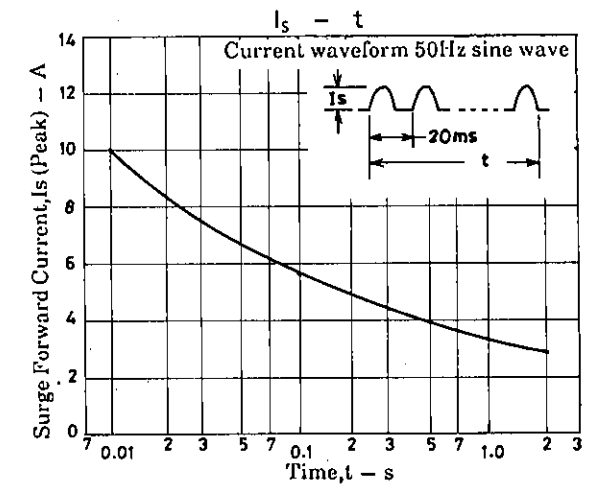
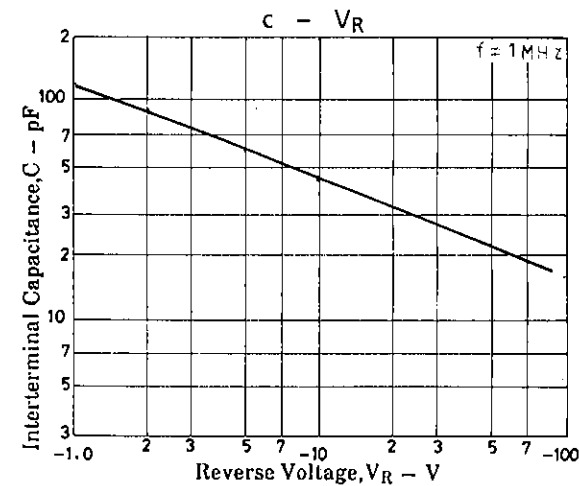
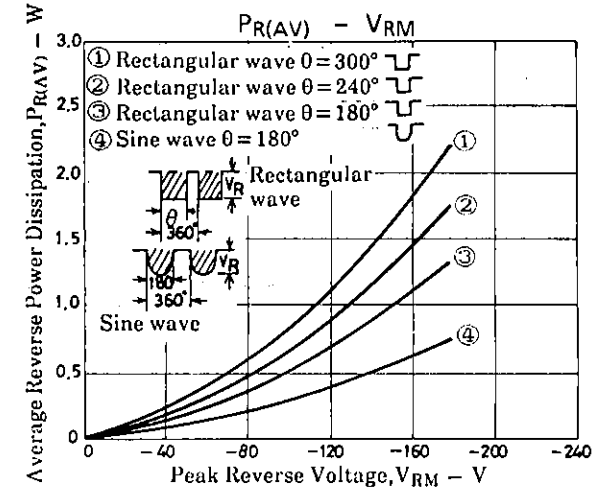
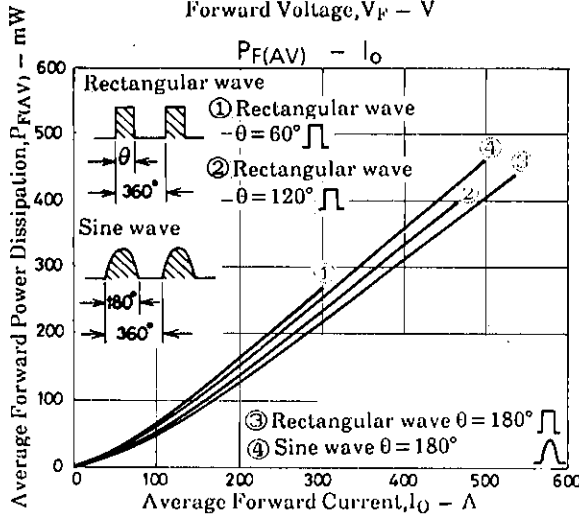
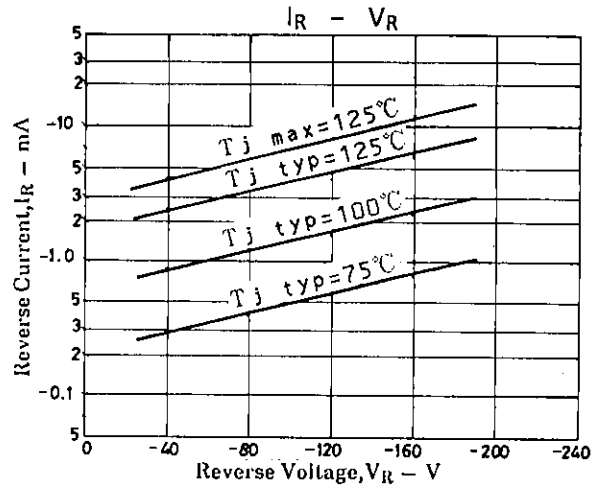
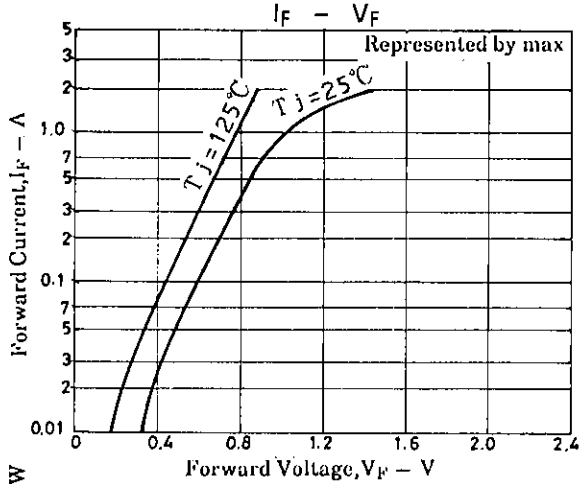
t_{rr} Test Circuit



Package Dimensions 1158
(unit: mm)



SB05-18M



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