

SANYO	No.3868	SB30-03P
		Silicon Epitaxial Schottky Barrier Diode 30V, 3A 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 = 30ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

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

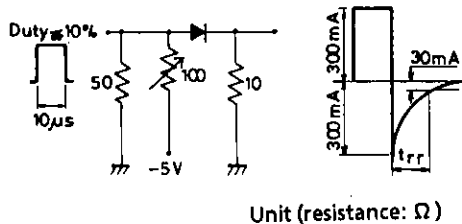
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Non-repetitive Peak Reverse Surge Voltage	V_{RSM}	35	V
Average Output Current	I_O	3	A
Surge Forward Current	I_{FSM} 50Hz sine wave, 1 cycle	10	A
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

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

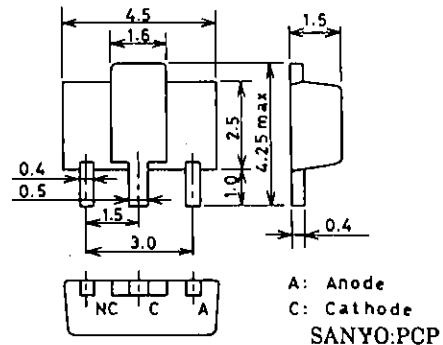
			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 1\text{mA}$	30			V
Forward Voltage	V_F	$I_F = 3\text{A}$			0.55	V
Reverse Current	I_R	$V_R = 15\text{V}$			200	μA
Interterminal Capacitance	c	$V_R = 10\text{V}, f = 1\text{MHz}$		160		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 300\text{mA}$, See specified Test Circuit.			30	ns
Thermal Resistance	$R_{th(j-a)}$ (1)			280		$^\circ\text{C/W}$
	$R_{th(j-a)}$ (2)	Mounted on $250\text{mm}^2 \times 0.8\text{mm}$ ceramic board		100		$^\circ\text{C/W}$

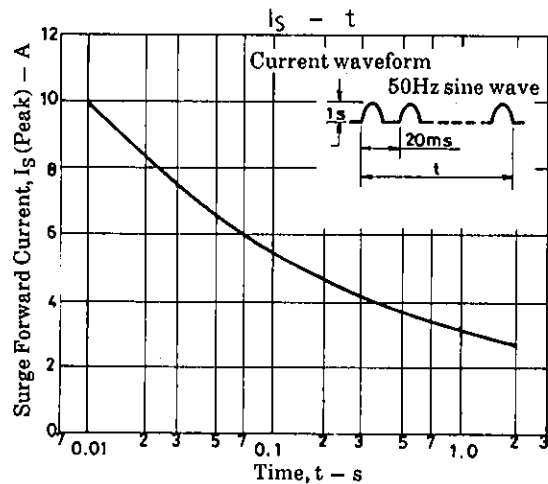
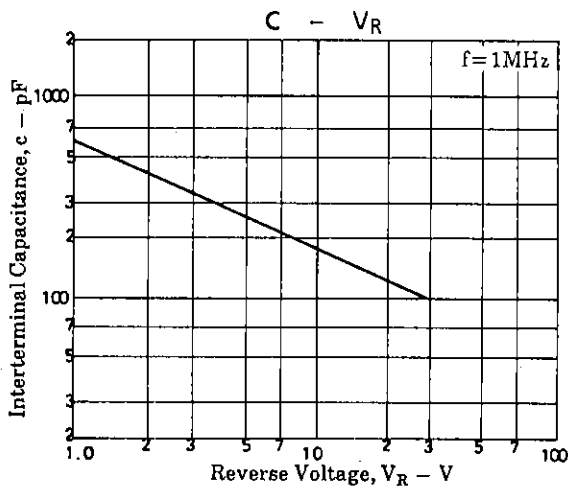
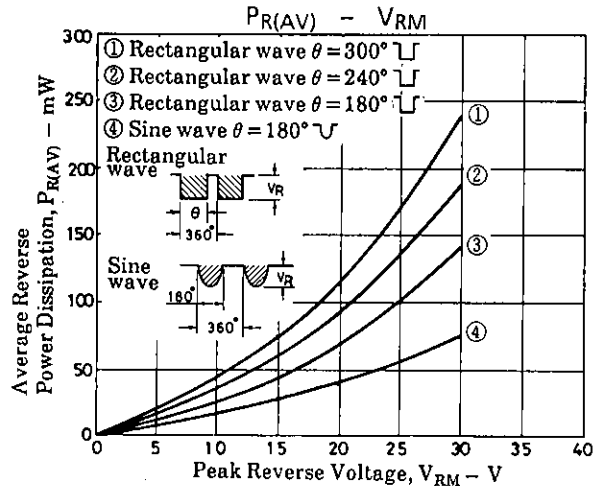
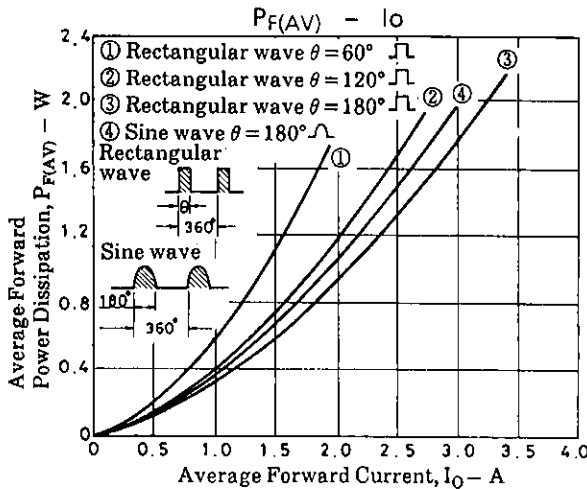
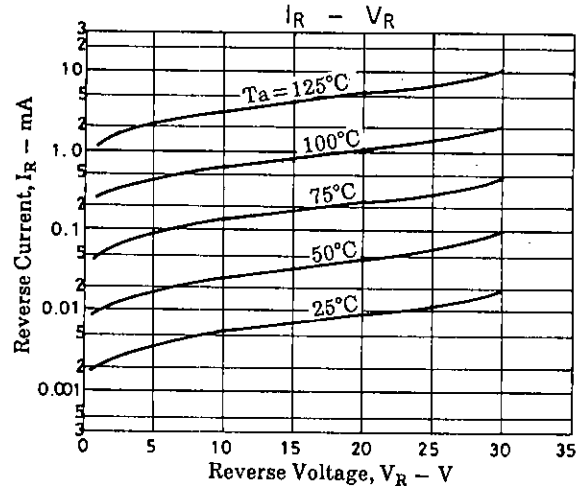
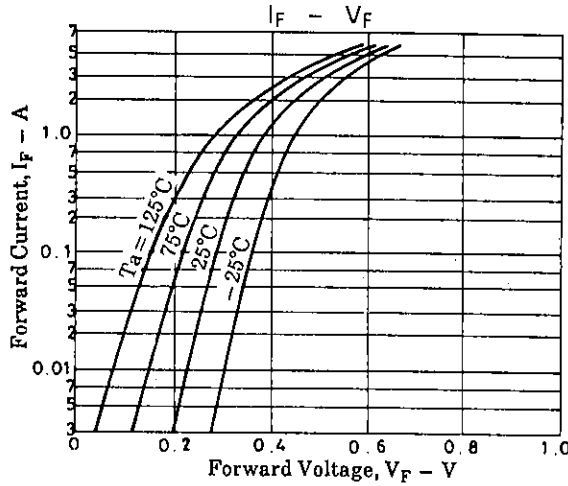
Marking : SG

t_{rr} Test Circuit



Package Dimensions 1244
(unit: mm)





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