

SANYO	No.3613A	SB05W05P
	Schottky Barrier Diode (Twin Type · Cathode Common)	
50V, 500mA Rectifier		

Applications

- Universal use rectifier
- High frequency rectification (switching regulators, converters, choppers)

Features

- Low forward voltage ($V_F \text{ max} = 0.55\text{V}$)
- Fast reverse recovery time ($t_{rr} \text{ max} = 10\text{ns}$)
- Low switching noise
- Low leakage current and high reliability due to highly reliable planar structure

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$ (Value per element)

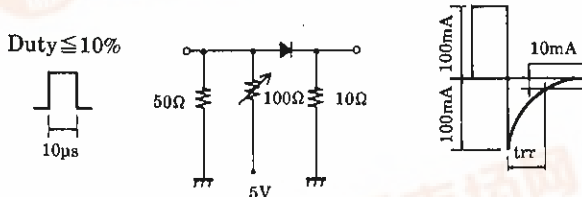
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	50	V
Non-repetitive Peak Reverse	V_{RSM}	55	V
Surge Voltage			
Average Output Current	I_o	500	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	5 A
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$ (Value per element)

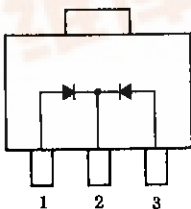
			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 200\mu\text{A}$	50			V
Forward Voltage	V_F	$I_F = 500\text{mA}$			0.55	V
Reverse Current	I_R	$V_R = 25\text{V}$			50	μA
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		25		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 100\text{mA}$, See specified Test Circuit.			10	ns
Thermal Resistance	R_{thj-a} (1)			300		$^\circ\text{C}/\text{W}$
	R_{thj-a} (2)	Mounted on a $250\text{mm}^2 \times 0.8\text{mm}$ t ceramic board		110		$^\circ\text{C}/\text{W}$

Marking : SE

t_{rr} Test Circuit

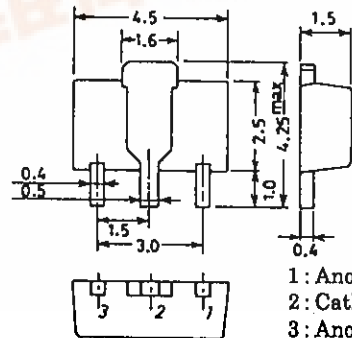


Electrode Connection



1: Anode
2: Cathode
3: Anode

Package Dimensions 1239A
(unit : mm)

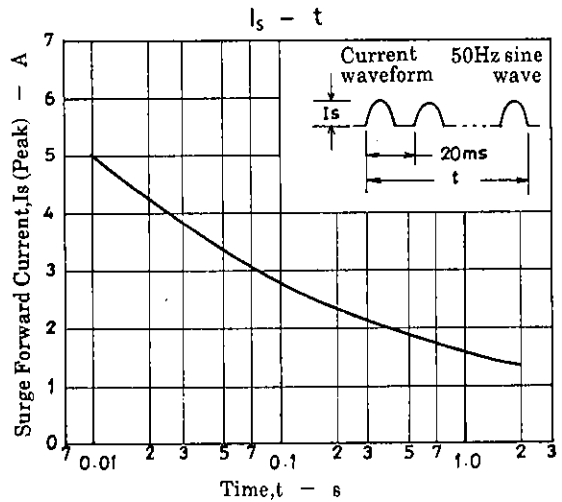
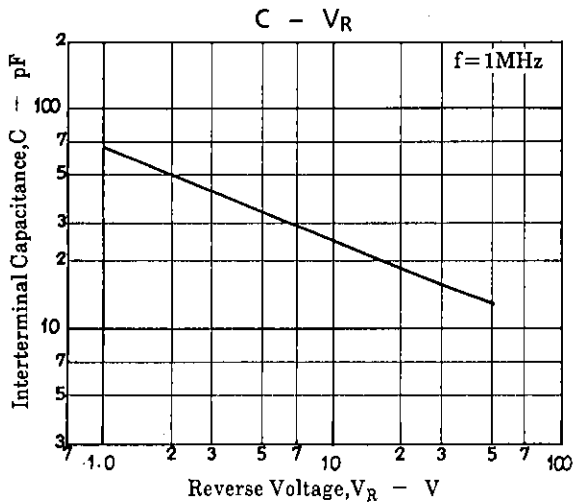
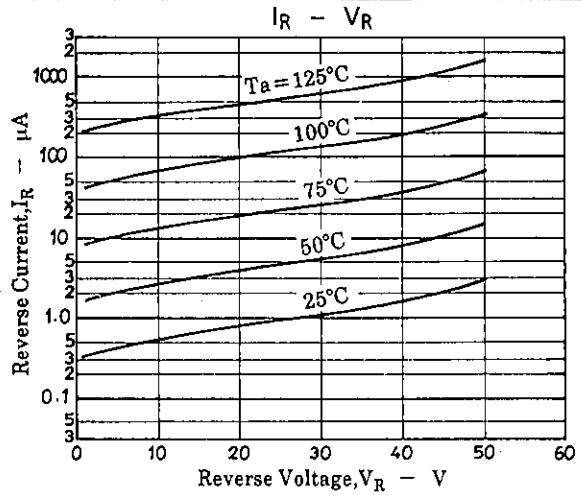
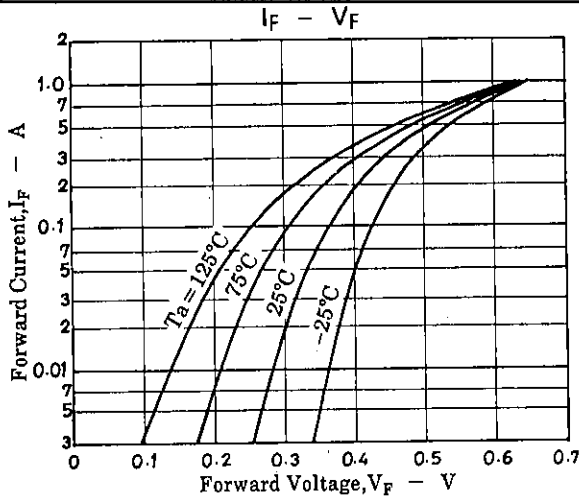


1: Anode
2: Cathode
3: Anode

SANYO : PCP



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