

SANYO	No.2937A	SB007W03S
		Schottky Barrier Diode (Twin Type · Cathode Common)
30V, 70mA 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=10ns)
- Low switching noise
- Low leakage current and high reliability due to highly reliable planar structure

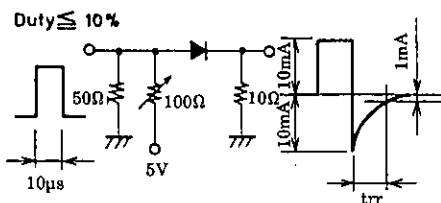
Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$ (Value per element)

			unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}	35	V
Average Output Current	I_O	70	mA
Surge Forward Current	I_{FSM} 50Hz sine wave, 1 cycle	2	A
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

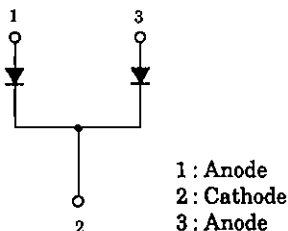
Electrical Characteristics at $T_a = 25^\circ\text{C}$ (Value per element)

			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 20\mu\text{A}$	30			V
Forward Voltage	V_F	$I_F = 70\text{mA}$			0.55	V
Reverse Current	I_R	$V_R = 15\text{V}$			5	μA
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		3.5		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10\text{mA}$, See specified Test Circuit.			10	ns
Thermal Resistance	R_{thj-a}			450		$^\circ\text{C/W}$

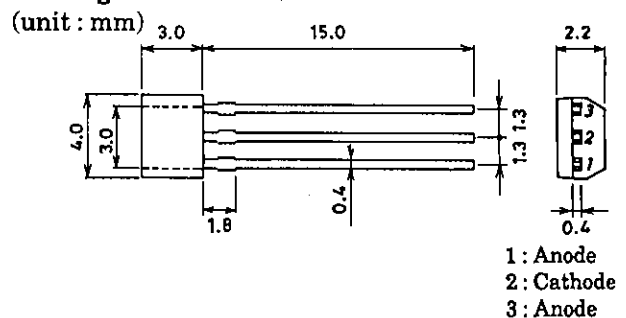
t_{rr} Test Circuit



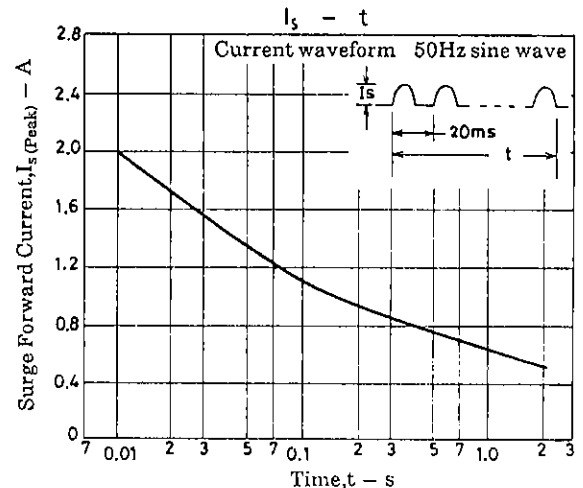
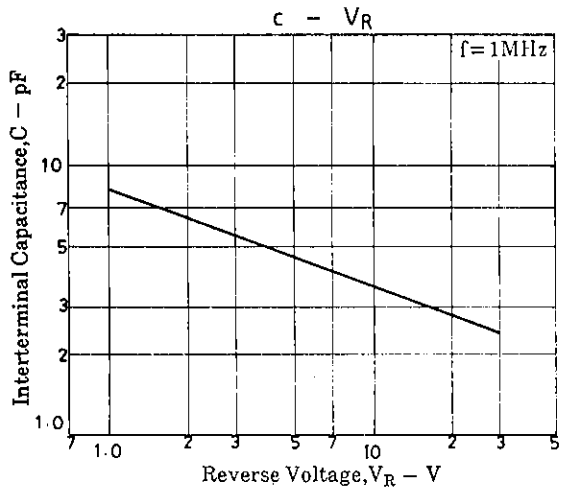
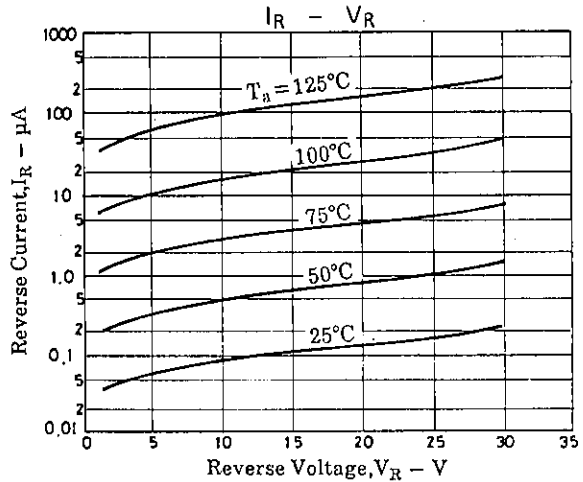
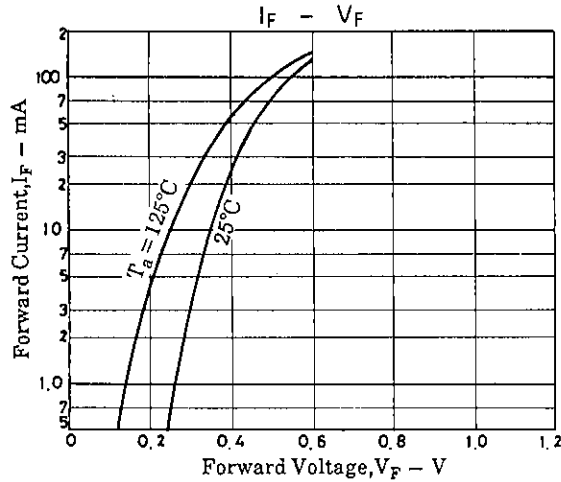
Electrical Connection



Package Dimensions 1129A



SANYO: SPA



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