



SB005W03

Shottky Barrier Diode (Twin Type · Cathode Common)

50V, 6A Rectifier

Applications

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

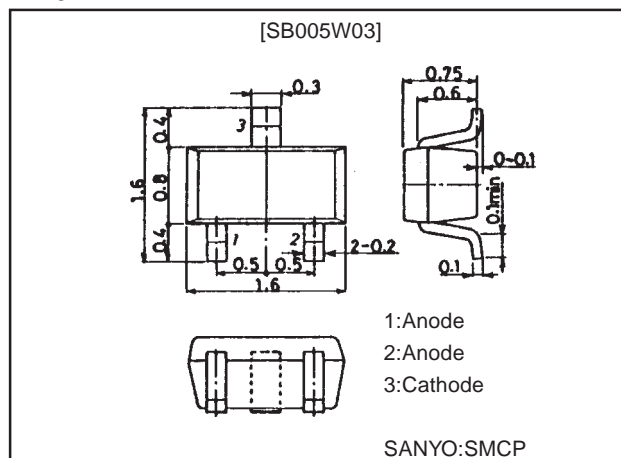
Features

- Low forward voltage(V_F max=0.55V).
- Fast reverse recovery time.
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1270



Specifications

Absolute Maximum Ratings at Ta = 25°C

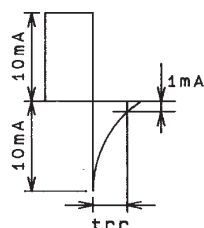
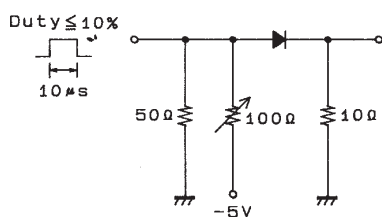
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		35	V
Average Output Current	I_O		50	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1cycle	2	A
Junction Temperature	T_j		-55 to +125	°C
Storage Temperature	T_{stg}		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

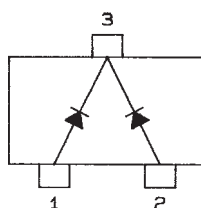
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=20\mu A$	30			V
Forward Voltage	V_F	$I_F=50mA$			0.55	V
Reverse Current	I_R	$V_R=15V$			5	μA
Interterminal Capacitance	C	$V_R=10V, f=1MHz$		2.6		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10mA$, See specified Test Circuit			10	ns

- Marking:LA

trr Test Circuit



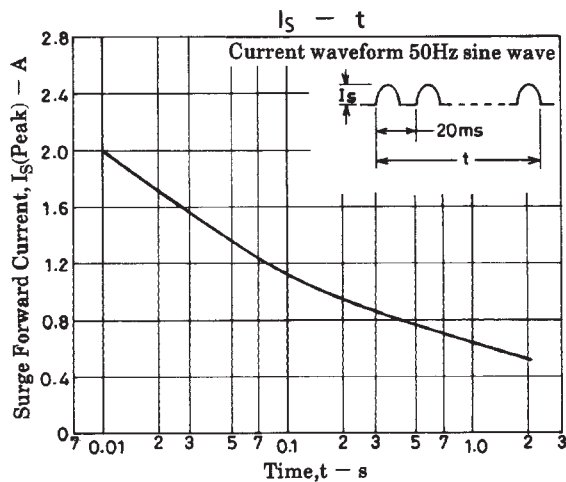
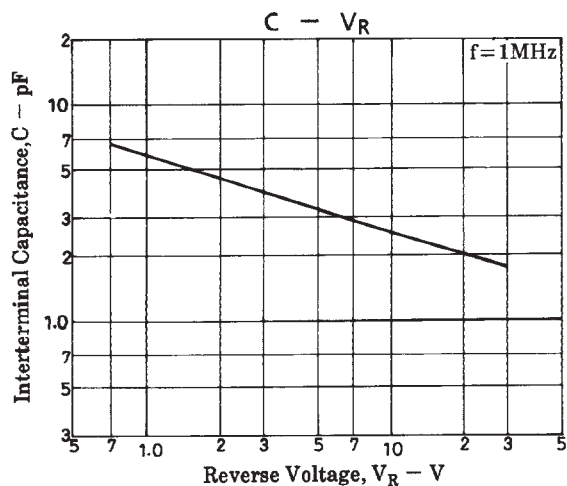
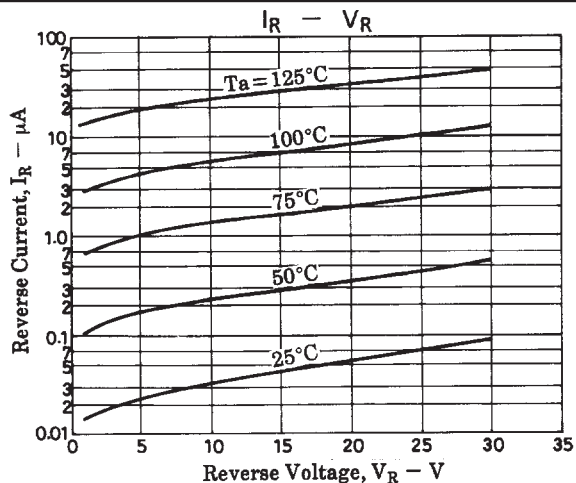
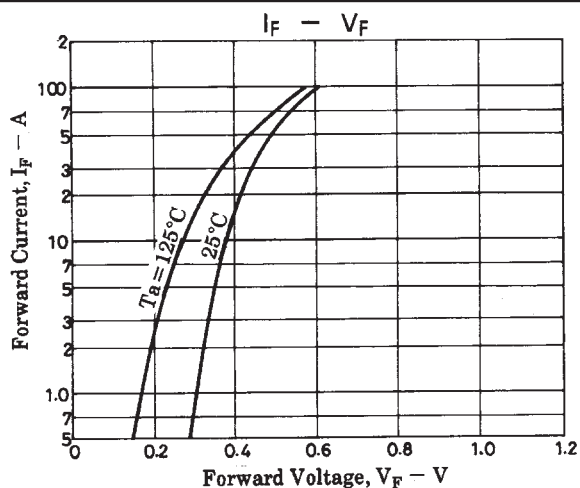
Electrical Connection



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