

**SANYO****SB20W03Z**

Schottky Barrier Diode (Twin Type · Cathode Common)

**30V, 2A Rectifier****Applications**

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

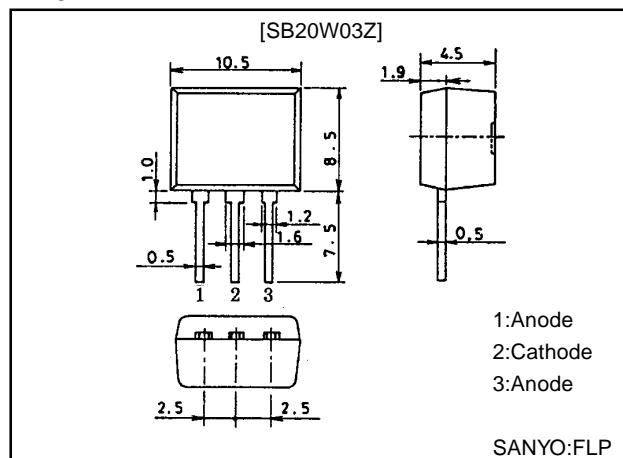
**Features**

- Low forward voltage ( $V_F$  max=0.55V).
- Fast reverse recovery time (trr max=20ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

**Package Dimensions**

unit:mm

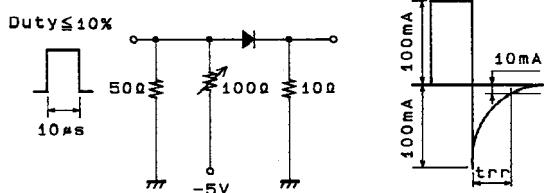
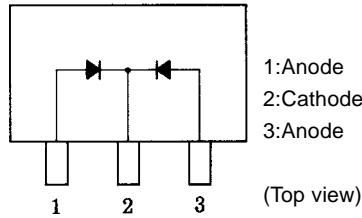
1243A

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

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	$I_O$		2	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	20	A
Junction Temperature	$T_j$		-55 to +125	°C
Storage Temperature	$T_{stg}$		-55 to +125	°C

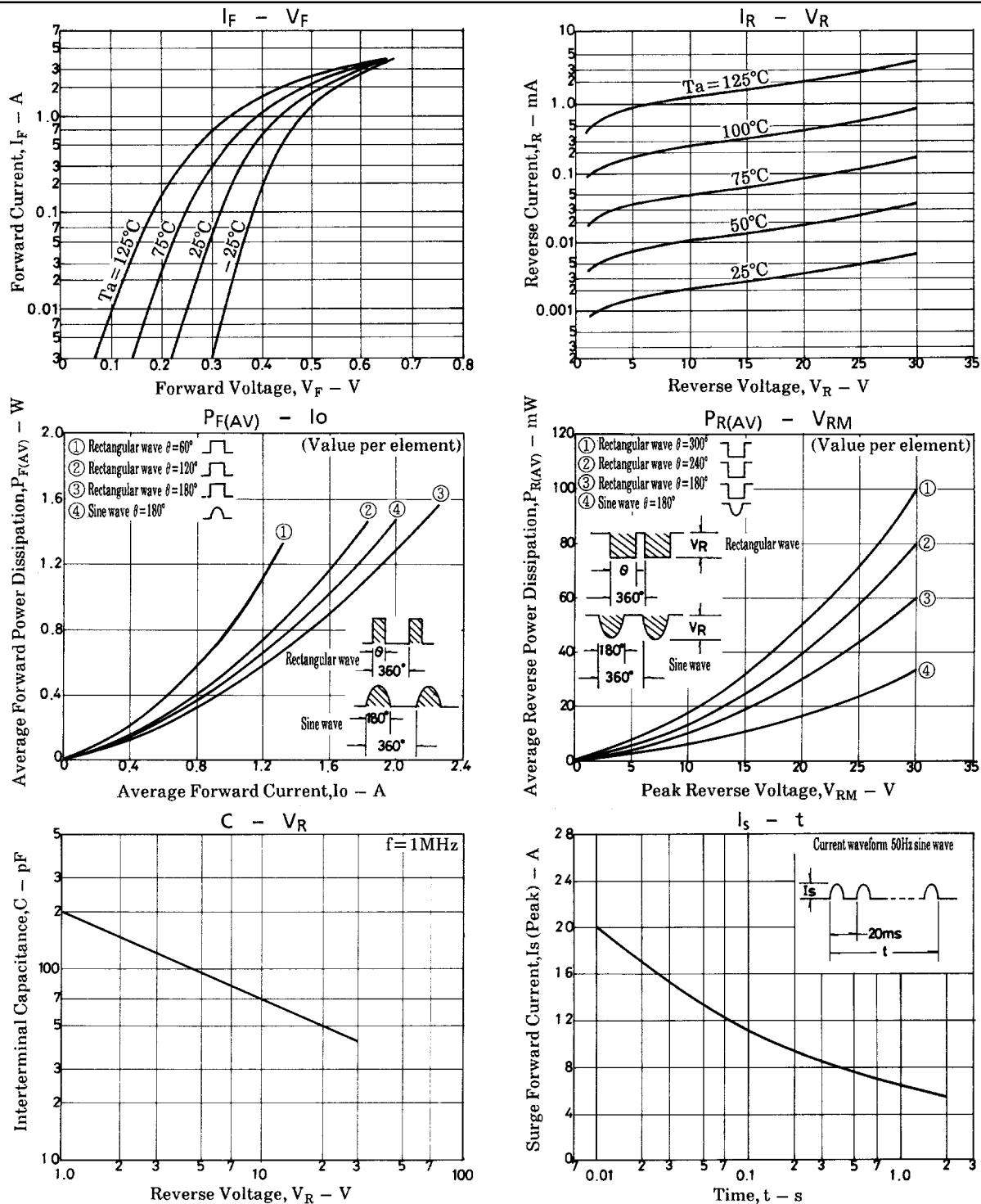
**Electrical Characteristics at  $T_a = 25^\circ\text{C}$  (Value per element)**

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=500\mu\text{A}$		30		V
Forward Voltage	$V_F$	$I_F=2\text{A}$			0.55	V
Reverse Current	$I_R$	$V_R=15\text{V}$			100	μA
Interterminal Capacitance	C	$V_R=10\text{V}, f=1\text{MHz}$		70		pF
Reverse Recovery Time	trr	$I_F=I_R=100\text{mA}$ , See specifialed Test Circuit.			20	ns
Thermal Resistance	$R_{th(j-a)}$				75	°C/W

**trr Test Circuit****Electrical Connection****SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters**

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