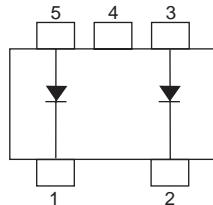


**15V, 1A Rectifier****Applications**

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

Features

- Low forward voltage ($I_F=0.5A$, V_F max=0.35V) ($I_F=1.0A$, V_F max=0.4V).
- Short reverse recovery time(t_{rr} max.=15ns).
- Composite type with 2 low VF SBDs in one package, facilitating high-density mounting.
- The SBS804 is composed of 2 chips that are equivalent to the SBS004.

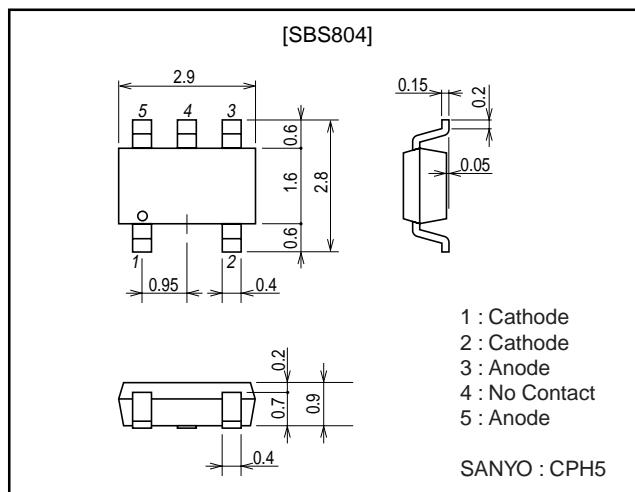
Electrical Connection

1 : Cathode
 2 : Cathode
 3 : Anode
 4 : No Contact
 5 : Anode

Package Dimensions

unit : mm

1294

**Specifications****Absolute Maximum Ratings** at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		15	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		15	V
Average Output Current	I _O		1	A
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	10	A
Junction Temperature	T _j		-55 to +125	°C
Storage Temperature	T _{stg}		-55 to +125	°C

■ Any and all SANYO products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your SANYO representative nearest you before using any SANYO products described or contained herein in such applications.

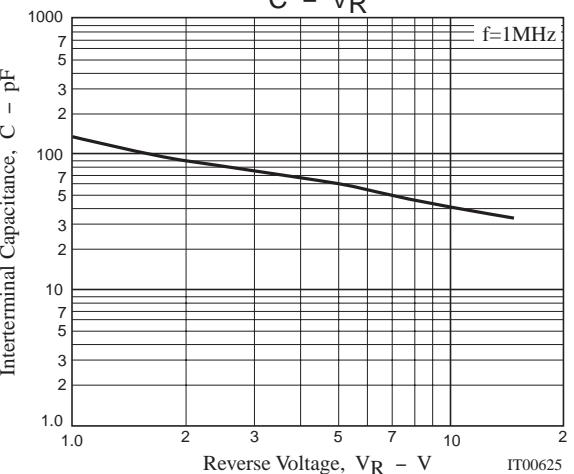
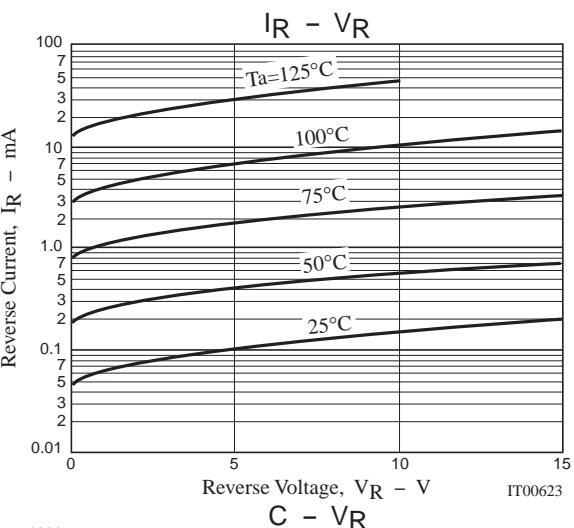
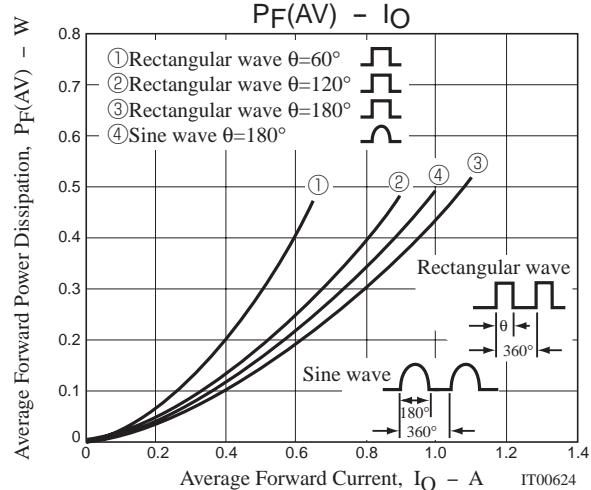
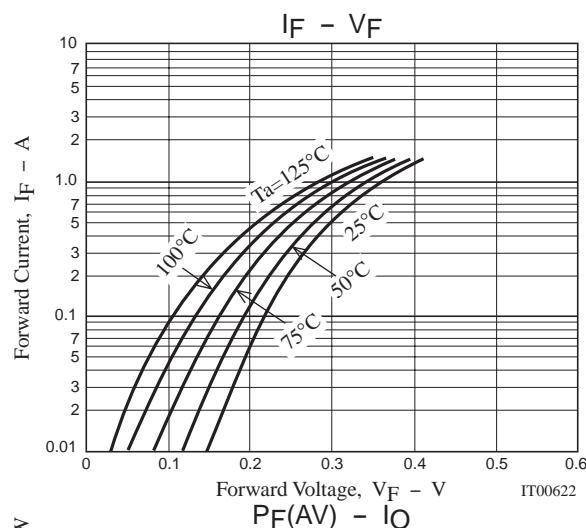
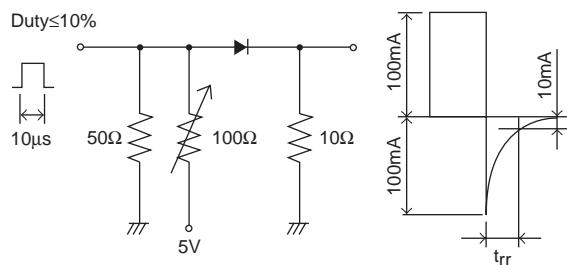
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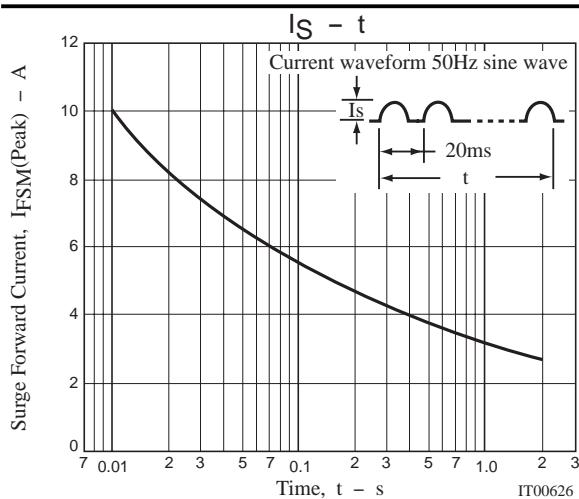
Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=1\text{mA}$	15			V
Forward Voltage	V_F1	$I_F=0.5\text{A}$		0.30	0.35	V
	V_F2	$I_F=1\text{A}$		0.35	0.40	V
Reverse Current	I_R	$V_R=6\text{V}$		500	μA	
Interterminal Capacitance	C	$V_R=10\text{V}, f=1\text{MHz}$	42			pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$, See specified Test Circuit.		15	ns	
Thermal Resistance	$R_{th(j-a)}$	Mounted on a ceramic board (600mm 2 ×0.8mm)	110			$^\circ\text{C/W}$

Marking : SC

Switching Time Test Circuit





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